

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MARCH 15, 1950



Fraxinus Velutina Glabra

SEEDS TREE—SHRUB—PERENNIAL HERBST BROTHERS
FLOWER—VEGETABLE—GRASS 92 Warren St., New York 7, N. Y.

Correspondence with seed collectors and growers invited.

Free catalog "Seeds for Nurserymen."

FRUIT TREES—FOR IMMEDIATE SHIPMENT

HEIGHT AND CALIPER—Height given of fruit trees is approximate and represents average height of most varieties. Some slow-growing kinds may fall short of height specified as it is intended that THE CALIPER SHALL GOVERN.

All Fruit Trees are tied: 11/16-in. and 9/16-in., 10 per bundle; 7/16-in. and 5/16-in., 20 per bundle.

APPLE and CRAB

	Per 10	Per 100	Per 1000
First-class, 11/16 to 7/8-in., 4 1/2 ft. and up.	\$4.50	\$40.00	\$350.00
First-class, 9/16 to 11/16-in., 4 ft. and up.	4.00	35.00	300.00
First-class, 7/16 to 9/16-in., 3 ft. and up.	2.90	25.00	.....
First-class, 5/16 to 7/16-in., 2 ft. and up.	2.40	20.00	.....
First-class, 7/8-in. and up, 5 ft. and up.	5.50	50.00	.....

Anoka	Joan	*Red Astrachan
*Baldwin	Jonathan	*Red Van Buren
Black Ben Davis	*Jonathan, Dark Red	Rome Beauty, Red
*Cortland	McIntosh	Rome Beauty, Gallia Bty.
Delicious	*McIntosh, Black Micky	*Rome Beauty, Ruby Red
*Delicious, Dark Red	*McIntosh, Early	Secor
*Delicious, Yellow	*Melba	Sharon
Duchess	Minn. No. 714	*Wealthy
*Duchess, Red	Northern Spy	*Whitney Crab
*Early Harvest	Northern Spy, Red	Winesap
*Fameuse	N. W. Greening	*Winesap, Crimson
*Grimes Golden	*Prairie Spy	*York Imperial, Red
*Haralson	(Minn. No. 1007)	

Varieties starred () can be furnished in budded trees.

PEAR—Standard

	Per 10	Per 100	Per 1000
1 and 2-yr., 11/16-in. and up, 4 1/2 ft. and up.	\$7.00	\$65.00	\$600.00
1 and 2-yr., 9/16 to 11/16-in., 4 ft. and up.	5.50	50.00	450.00
1 and 2-yr., 7/16 to 9/16-in., 3 ft. and up.	4.00	35.00	.....
1 and 2-yr., 7/8-in. and up, 5 ft. and up.	8.00	75.00	.....

If interested in quantity lots, write for special prices.

Bantam	Duchess	Mendel
Bartlett	Flemish Beauty	Parker
B. d'Anjou	Garber	Patten
Beurre Bosc	Gorham	Seckel
Bierschmidt	Kieffer	Sheldon
Clapp Favorite	Laxton's Progress	Vermont Beauty
Douglas	Laxton's Superb	Waite
	Lincoln	

CHERRIES—Sour—On Mahaleb

	Per 10	Per 100	Per 1000
2-yr., 11/16 to 1-in., 4 ft. and up.	\$ 8.50	\$80.00	\$750.00
2-yr., 9/16 to 11/16-in., 3 1/2 ft. and up.	7.50	70.00	650.00
2-yr., 1 to 1 1/4-in., 4 1/2 ft. and up.	10.00	90.00	850.00

	Per 10	Per 100	Per 1000
1-yr., 11/16-in. and up, 3 1/2 ft. and up.	\$8.50	\$80.00	\$750.00
1-yr., 9/16 to 11/16-in., 3 ft. and up.	7.50	70.00	650.00
1-yr., 7/16 to 9/16-in., 2 1/2 ft. and up.	6.50	60.00	.....
1-yr., 5/16 to 7/16-in., 2 ft. and up.	5.00	45.00	.....

Early Richmond English Morello Montmorency Royal Duke

CHERRIES—Sweet

	Per 10	Per 100	Per 1000
1-yr., 11/16-in. and up, 4 1/2 ft. and up, branched and whips.	\$11.00	\$100.00	\$900.00
1-yr., 9/16-in. and up, 4 ft. and up, branched and whips.	9.00	85.00	800.00
1-yr., 7/16 to 9/16-in., 3 ft. and up, branched and whips.	7.50	70.00	650.00
1-yr., 5/16 to 7/16-in., 2 1/2 ft. and up, mostly whips.	6.00	55.00	500.00

Bing	Lambert	Windsor
Black Tartarian	Napoleon	Yellow Glass
	Schmidt's Bigarreau	

QUINTUPLET PEAR

Shenandoah-grown

These were dormant budded in summer, 1948, on the side limbs on 2-yr. trees, so buds have one full year's growth.

	Per 10	Per 100	Per 1000
3-yr., 9/16-in. and up, 5 ft. and up	\$15.00	\$135.00	\$1,250.00

ON BARTLETT

Douglas	Lincoln	Seckel
Duchess	Parker	

ORANGE QUINCE

	Per 10	Per 100	Per 1000
2-yr., 5/8-in. and up.	\$10.00	\$90.00	\$800.00
2-yr., 1/2 to 5/8-in.	7.00	65.00	600.00
2-yr., 3/8 to 1/2-in.	5.00	45.00	.....

PLUM

	Per 10	Per 100	Per 1000
1 and 2-yr., 11/16-in. and up, 4 1/2 ft. and up.	\$7.00	\$65.00	\$600.00
1 and 2-yr., 9/16 to 11/16-in., 4 ft. and up.	5.50	50.00	450.00
1 and 2-yr., 7/16 to 9/16-in., 3 ft. and up.	4.00	35.00	300.00
1 and 2-yr., 5/16 to 7/16-in., 2 ft. and up.	3.50	30.00	250.00

EUROPEAN, 1 and 2 yrs. on Myrobalan, all branched.

Blue Damson	Lombard	Shrop. Damson
Green Gage	Mt. Royal	Stanley Prune
Italian Prune	Reine Claude	Weber Prune

JAPANESE, 2 yrs. on Peach and 1 yr. on Myrobalan, all branched.

Abundance	Burbank	Santa Rosa
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AMERICAN and HARDY HYBRIDS, 1 yr. on Native Roots, branched.

Compass	Kaga	Red Coat
Elliot	Kahinta	Redwing
Ember	La Crescent	Sapa
Fiebing	Monitor	Superior
Goldenrod	Oka	Toka
Grenville	Opata	Underwood
Hanska	Pipestone	Waneta

APRICOT—Trees

Grown from selected seeds secured from Chinese Apricot-bearing orchards of the Northwest.

	Per 10	Per 100	Per 1000
1-yr., 11/16-in. and up, 4 1/2 ft. and up.	\$6.00	\$55.00	\$500.00
1-yr., 9/16 to 11/16-in., 4 ft. and up.	5.00	45.00	400.00
1-yr., 7/16 to 9/16-in., 3 ft. and up.	3.50	30.00	270.00
1-yr., 5/16 to 7/16-in., 2 ft. and up.	2.40	20.00	175.00



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AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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Forms for the April 1 issue will close Monday, March 20.

Mail copy to arrive at Chicago by that date—no later!



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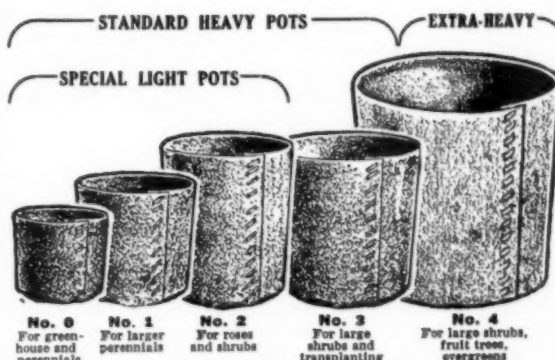
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plants in Cloverset Pots are easier to buy, easier to carry home safely, can be transplanted whenever convenient and are much more sure to grow.

PRICE LIST AND SPECIFICATIONS

TYPE	Height	Top Diam.	Nearest Clay Pot	Approx. Weight	PRICE		
SPECIAL LIGHT	(Packed 200 in carton)			Per 200	Per 200	Per 1000	
No. 0	5 1/2 ins.	5 ins.	6 ins.	25 lbs.	\$5.00	\$22.50	
No. 1	6 1/2 ins.	6 ins.	7 ins.	37 lbs.	7.00	32.50	
No. 2	9 1/2 ins.	7 ins.	8 ins.	50 lbs.	8.00	37.50	
STANDARD HEAVY	(Packed 100 in carton)			Per 100	Per 100	Per 1000	
No. 0	5 1/2 ins.	5 ins.	6 ins.	35 lbs.	\$3.00	\$27.50	
No. 1	6 1/2 ins.	6 ins.	7 ins.	52 lbs.	4.25	40.00	
No. 2	9 1/2 ins.	7 ins.	8 ins.	78 lbs.	4.75	45.00	
No. 3	9 ins.	8 ins.	9 ins.	88 lbs.	5.25	50.00	
EXTRA-HEAVY	(Packed 25 in carton)			Per 100	Per 25	Per 50	Per 75
No. 4	13 ins.	12 ins.		200 lbs.	\$8.25	\$12.50	\$18.75
					Per 100	Per 1000	
					\$22.50	\$200.00	

*Patent Number
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AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

Editorial

MORE FOR THE MEMBERS.

For some years the National Mail Order Nurserymen's Association has allotted each of its members three or four lines of type, following the firm's name in the membership list, to tell about the firm and its activities, in the pamphlet of twenty pages which constitutes the annual bulletin of the organization.

So far as is known, that was the only nurserymen's association to provide such free listing of data regarding members until the appearance of the convention program of the Pennsylvania Nurserymen's Association this year. In its make-up and in its assembling of display advertising, the program followed that of the Illinois and several other state associations. But after each member's name in the Pennsylvania program appeared several lines of type presenting information obtained by a questionnaire. The data included telephone number, location of nursery, nearest community, railroad and express station, acreage, date business started, type of catalog published and specialties.

Not long ago space was taken on this page to commend the secretaries of those associations which included the name of the owner or manager with the firm name in printing the membership list in the annual convention program. The programs that provide this simple addition are still few in number. But if the word association means anything in the title of a state organization, attempt should be made to interest the members more closely in one another. With the increased revenue many associations are deriving from sale of advertising in their program books or from other sources, thought might well be given to the possibility of this better service to members.

The additional work put on the secretary or other officers is fully realized by one in the publishing business, but the secretaries who have put forth the extra effort have been gratified with the results. There has been much satisfaction expressed in the case of the Pennsylvania association, and the retiring president, William H. Long, will no doubt be the longer remembered for the innovation for which he was responsible in a nurserymen's convention program.

The Mirror of the Trade

PRINTED SELLING.

How often does the retail nurseryman or one of his salesmen spend a half hour answering questions and discussing plants with a customer or prospect, and call it good selling whether he books an order then or not! That half hour is cheap at a dollar and probably costs several dollars if put into a cost time sheet. Just the same, the nurseryman usually considers it good business and would like to have more time for such personal visits.

But not many retail nurserymen, aside from those issuing mail-order catalogs, take advantage of the selling assistance that is offered in printed form and at lower cost. From time to time booklets or pamphlets have been offered, at low cost in quantity, prepared to interest homeowners and factory owners in planting their grounds. Some are better than others; yet, no matter how good, the surprising thing is the limited number of copies circulated, in comparison with the vast numbers of prospects which could be, and should be, reached by the nurserymen of the country.

Take, for example, booklets on how to landscape the home. The operator of a nursery salesyard could afford to give a copy of such a booklet to a promising prospect, as easily as he could afford to spend a half hour in conversation. Indeed, the permanent character of the book and its reminder over an extended period of time might actually prove a more effective means of selling than the half hour of conversation.

If the retail nurseryman or his salesmen used some such form of printed selling in lieu of a call on first-class prospects whom they had not time to visit personally, the investment should be well repaid. Have you tried it?

TREE PLANTING.

The demand for seedling trees for windbreaks, farm woodlots and reforestation, from both state and commercial nurseries, is expected to be the largest in some years in 1950. Interest in replanting denuded lands has been fostered by many agencies, while articles on the subject in magazines and newspapers have given the public the urge to act. Private reforestation projects are more numerous than ever before, while the government has some ambitious plans.

Moreover, the supply of stock is larger than before the war. While state nurseries supply great quantities—eighty-three state nurseries expect production this year to reach 470,000,000 seedlings—commercial firms are increasing their output. Seedling tree planters, when they know what they are doing, will pay more money for good quality stock, just as in other lines of enterprise.

Stimulus to tree planting has been given by Congress through adoption of the Granger bill, which liberalizes the old Clarke-McNary act. Not only did Congress increase the appropriation from \$100,000 to \$250,000, but landowners generally became eligible for the benefits, not farmers alone.

The goal of Congress is expressed as a million acres a year in tree planting. Last year a total of 348,000 acres were planted, according to figures compiled by the United States Forest Service, approximately the same as the preceding year, 351,000 acres.

Private planting accounts for most of the trees set out. Out of last year's total, federal planting on federal lands accounted for 59,000 acres; planting on other public lands, 23,000 acres, and planting by private landowners and industry on private lands 266,000 acres.

Farmers still account for the larger share of the latter figure, planting 123,000 acres last year. Other small landowners planted 27,000 acres. The forest industries accounted for 107,000 acres, and other industries 9,000 acres.

State nurseries produced 356,000 seedling trees last year, compared to 239,000,000 trees the year before. Statistics on production in commercial nurseries have not been compiled.

ENTERING their first commercial year as owners of a retail nursery are Joe and Anne Kednay, Gary, Ind.

A TRIP to Mexico was taken last month by Mrs. Rita Van Hevelingen Copeland, of the N. Van Hevelingen Co., Portland, Ore.

CHARLES SIZEMORE, Louisiana, Mo., veteran traffic manager and one-time secretary of the American Association of Nurserymen, was considerably shaken up in an automobile accident, February 23. He took it lightly at first, but bruised muscles kept him away from his office until March 7.

Outstanding Pennsylvania Conference

By R. P. Meahl

The 3-day nurserymen's conference, sponsored by the department of horticulture at Pennsylvania State College, State College, opened February 21 with about 125 persons attending. R. P. Meahl, professor of ornamental horticulture, who was chairman of the sessions, introduced Dr. Russell B. Dickerson, vice dean and director of resident instruction of the school of agriculture, who officially welcomed the nurserymen to the campus.

Hybrid Rhododendrons.

The first speaker was Roland de Wilde, Jr., de Wilde's Rhodo-Lake Nursery, Shiloh, N. J., whose topic was "Hybrid Rhododendrons." He said rhododendrons were already popular plants and becoming even more so. Their use is most practical where considerable landscaping has already been done, as where there are overhead trees or other plantings which can offer shade. The limiting factors in their use are their scarcity, causing their high prices, and the fact that many people do not know just how to keep them growing vigorously.

Necessary for growing good hybrid plans are good propagation, good soil, mulching, feeding and pest control. Propagation should be by some asexual method, such as by grafting or layering or from leaf-bud cuttings. Grafting is the usual way, Mr. de Wilde said. The stock usually used is *Rhododendron ponticum*, which is grown from seeds, and it requires two years before plants are large enough to graft. Layering is a satisfactory method, but takes skilled labor during a busy time and also requires a large number of stock plants. Leaf-bud cuttings have proved successful in some cases, but after rooting the buds may not break into growth. Some are extremely hard to root, and rooting stimulants have not proved beneficial.

The soil should be rich in organic matter with good drainage, good aeration and an acid reaction. The pH may range from 4 to 6 with growth continuing good. One should try to simulate the conditions under which rhododendrons grow naturally. The organic matter may be supplied with peat moss, leaf mold or similar material. Drainage can be secured by using sharp sand or by installing tiles. It is a good idea to raise the bed area about four to six inches above the surrounding area to facilitate better drainage.

Rhododendrons grow naturally in clumps. This is a good method to follow when planting. Another point is to keep the plants under trees or in at least partial shade. Leaves dropping from the trees add a most desirable mulch. If natural mulch is not available, some material must be secured. In areas where available, salt hay is desirable. Oak leaves are good but are difficult to keep from blowing away. Peat moss is also satisfactory. Peanut hulls can be used, but caution should be taken not to apply too thickly, or the nitrogen content of



R. P. Meahl.

the soil may rise too high because of leaching.

The feeding of rhododendron plants will depend partly on the type of soil in which they are growing. In sandy soil feeding may need to be done often. On heavier types less would be needed. Commercial types of fertilizers designed especially for rhododendrons or acid-loving plants are good but somewhat expensive. A nursery may have a mixture prepared for its own needs. Mr. de Wilde likes a 5-10-10 fertilizer in which at least half of the nitrogen is from an organic source. This fertilizer might be used at the rate of 1,000 pounds to the acre or two and one-half pounds per 100 square feet. Ammonium sulphate can be used as a source of nitrogen, but nitrate of soda should never be used. Before planting, the addition of 1,000 pounds of cottonseed meal to the acre will usually be worth while.

Controlling diseases is important, and the best precaution is to prevent

their appearance. One disease which may appear on rhododendrons is wilt, the symptoms of which are excessive wilting of new growth followed by chlorosis. Examination will probably reveal blackening of the roots and streaks under the bark. The best treatment is to pull the plants and burn them. A second disease is die-back, which shows up more readily in poorly cared for plantings. The treatment is to cut out all dead wood, following with a strong spray of Bordeaux.

And another disease is leaf spot. A spot appears on the leaf, which eventually may develop into a hole. The control is to spray with Bordeaux or some other fungicide. In cases where the residue of the Bordeaux is objectionable, Fermate or Zerlate may be used, although Mr. de Wilde feels better control is secured with Bordeaux.

Rhododendron Insect Control.

Insects which may affect the plants are red spider, which is not too common, cranberry beetle and lace bug. The general spraying practice followed at de Wilde's Rhodo-Lake Nursery is to apply a 2-5-50 Bordeaux mixture with a sticker when the first growth is rather complete but not completely hardened. To this Bordeaux may be added three pounds of arsenate of lead and one pint of forty per cent nicotine sulphate per 100 gallons to eliminate chewing insects, lace-wing and thrips. This combination of spray is repeated every two weeks, gradually increasing the Bordeaux mixture until a 5-5-50 formula is reached. If the plants are clean after the first three sprays, the applications can be spaced four to five weeks apart.

The question of hardiness of varieties is relative. Hardy types are better able to curve their leaves in cold weather and thus are able to cut down transpiration to a greater extent. This is especially important in prolonged cold periods or dry spells when the roots are not able to absorb sufficient moisture to offset the amount lost through normal evaporation. Rhododendrons thrive better when kept out of windswept areas and when heavily mulched.

Mr. de Wilde concluded his talk by showing Kodachrome slides of the more desirable varieties of rhododendrons and presented a check list of hybrids, giving the flower

color, degree of hardiness and habit of growth, as is shown at the bottom of the page.

The second speaker was Albert F. W. Vick, Jr., who spoke on "Creating Naturalistic Gardens." He demonstrated his talk by using two frames in which he designed small gardens, using natural rocks and plants of native wild flowers and mosses. One of the gardens was developed along informal lines and the other was rather formal. The results in each case were attractive and pleasing and drew considerable favorable comment.

Use of Broad-leaved Evergreens.

"Selected Plants for Ornamental Plantings" was the subject of a talk by Professor Meahl, which he illustrated with Kodachrome slides. He said nurserymen should grow and use plants which give a long period of attractiveness. The group of plants that do this especially well are the broad-leaved evergreens. More of these should be included in landscape plantings since the enjoyment derived

from their presence in the garden is so much greater because of their green foliage and usually showy flowers. The discussion was confined to broad-leaved evergreens and deciduous material, and the plants that were recommended are listed below according to their size under the following groups: Vines, ground covers, dwarf shrubs, small shrubs, medium shrubs, large shrubs, small trees and standard trees.

Among the evergreen vines, *Euonymus fortunei* vegetus, bigleaf wintercreeper *euonymus*, and *Hedera helix baltica*, Baltic English ivy, were especially recommended. Both climb by aerial rootlets and readily attach themselves to walls or other support. The bigleaf wintercreeper is completely hardy, keeping its leaves throughout the winter. It usually bears a heavy crop of orange-red fruit which makes an excellent contrast with the foliage and remains on the plant well into the winter. The only drawback is its susceptibility to scale insects. If these appear it is necessary to spray with an oil to con-

trol them. The Baltic English ivy is harder than the type and will thrive in most regions of Pennsylvania unless planted in exposed areas, so a somewhat sheltered spot is preferable.

Deciduous vines which are desirable are *Lonicera japonica halliana*, Hall's Japanese honeysuckle, *Clematis paniculata*, sweet autumn clematis, *Parthenocissus tricuspidata veitchi*, Veitch Japanese creeper, and *Parthenocissus tricuspidata lowi*, Low's Japanese creeper. The first two climb by twining, while the latter two do so by tendrils with little disks which attach themselves to any support. The flowers of the honeysuckle are especially fragrant, and the foliage remains green late in the fall. There are many clematis which are good, but the most useful and reliable is sweet autumn clematis. It has a heavy crop of flowers late in the summer or early fall and has bright green foliage throughout the growing season. Both creepers are less rapid in their spread than the older type *Parthenocissus tricuspidata*, Japanese creeper, Boston ivy, and are more desirable. Low's form is good where it is desirable to have some of the wall show through the foliage of the vine.

Low Broad-leaved Evergreens.

Evergreen ground covers give a finish to a planting not otherwise secured. *Pachysandra* continues to be desirable for shady locations. *Vinca minor* or *Vinca minor Bowles* are also good for a flat low cover. *Sarcococca hookeriana humilis* and *Pachistima canbyi*, *Canby pachistima*, reach a little greater height and may be used more sparingly. Baltic English ivy and *Euonymus fortunei coloratus*, purpleleaf wintercreeper, are effective as ground covers, although the same restrictions or disadvantages as mentioned for vines also apply to them when used as ground covers.

Low or dwarf shrubs have few good representatives, but *Ilex crenata convexa*, boxleaf Japanese holly; *Daphne cneorum*, rose daphne, and *Pieris floribunda*, mountain pieris, are outstanding examples. *Euonymus fortunei carrierei*, glossy wintercreeper, and *Euonymus fortunei vegetus* can also be used as low shrubs if no wall or support is provided.

Among the deciduous plants, *Spiraea bumalda* Anthony Waterer is desirable for its attractive flowers in early summer even though considerable dead wood develops during the winter. *Deutzia gracilis* slender deutzia, is showy in flower but does not have outstanding foliage or attractive fruit. *Cotoneaster adpressa*,

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Check List of Hybrid Rhododendrons

Hardness: A—Most hardy; E—Least hardy.

Key to Habit: a—very tall; b—medium high; c—medium; d—low; e—dwarf.

Hardiness	Habit	Hardiness	Habit
album elegans, white.....	A a	Ignatius Sargent, light red.....	A c
album grandiflorum, white..	A b	John Walter, clear red.....	C c
America, red.....	A c	Kate Waterer, clear pink.....	D c
Amphion, reddish-violet,		Kettle Drum, red.....	A c
lighter center.....	A c	Lady Annette de Trafford,	
atrosanguineum, dark red....	A d	white, dark blotch.....	C b
Bagshot Ruby, ruby-red....	D c	Lady Grey Egerton, white....	C a
Blandianum, light red.....	C c	Lee's Dark Purple, purple..	A b
Boule de Neige, white, early	A c	Lord Roberts, clear red.....	D a
catawbiense album, white....	A c	Mme. B. de Bruin,	
catawbiense Boursalt, rosy		clear dark red.....	C c
lavender.....	A c	Mme. Carvalho, white.....	C b
catawbiense grandiflorum,		Marquis of Waterford, red,	
lavender.....	A c	light center.....	B c
Chas. Bagley, magenta-red..	A c	Michael Waterer, dark red,	
Chas. Dickens, red.....	A b	lone habit.....	D c
Cynthia, large pink.....	C b	Mrs. C. S. Sargent,	
Countess of Athlone, lilac....	C c	deep pink.....	A c
Dr. H. C. Dresselhuys, red..	B b	Mrs. P. den Ouden, red.....	B d
Dr. H. J. Lovink, red.....	C c	Mrs. R. S. Halford,	
Dr. V. H. Rutgers, red.....	C c	salmon-red.....	C b
Edward S. Rand, rose.....	B d	Parsons' Gloriosum, blush	
Essex Scarlet, scarlet.....	D b	to white.....	A b
Everestianum, rosy-lavender.	C c	Parsons' Grandiflorum,	
Fastuosum florepleno,		purple-red.....	A c
lavender, semidouble.....	C c	Pink Pearl, pink, large	
F. D. Godman, red,		truss.....	E c
dark macule.....	C a	President Lincoln, mauve....	A b
fortunei and hybrids,		Prometheus, early, dark red	
light pink to white.....	B-C b-c	purpureum elegans, purple..	A c
Gloxineum, deep pink, large		Purple Splendor, best dark	
flower.....	B c	purple.....	C d
Goldsworth Crimson.....	E c	Roseum Elegans, pink.....	A c
Goldsworth Yellow, pale		Roseum Superbum, pink.....	A b
yellow, reddish macule....	B c	Sir Henry Havelock,	
Gomer Waterer, white,		cherry-red.....	C d
rosy edge.....	D c	Stanley Davies, red,	
Grand Arab (Vesuvius),		dark blotch.....	C c
red, poor color foliage....	C b	discolor hybrids (Sloccock &	
H. H. Hunnewell, early,		Dexter), large-flowered, pale	
purple-red.....	A c	pink or white, very late	
		flowering.....	C and D b and c

Landscape Foreman's Responsibilities

Three landscape foremen of member firms provided a novel feature of the educational program of the New England Nurserymen's Association, at Boston, February 8. Their subject was "What Responsibilities Does a Landscape Foreman Have in Carrying Out Jobs?" Topical questions were put to them by the moderator, Willard Bond, of the Bay State Nurseries, Inc., North Abington, Mass., whose running fire of comments maintained the pace of the program.

These men, he asserted, were nearer the customers than the owners or the salesmen. They must meet the problems on the job, whether they be concerned with the clients or the planting itself.

The three foremen were Robert Kane, of Wyman's Framingham Nurseries, Framingham, Mass.; Raymond Hopkins, of the Peter Cascio Nurseries, West Hartford, Conn., and Linwood Robbins, of the Bay State Nurseries, Inc. They appeared without any preparation and answered questions put to them by Mr. Bond.

Checking Stock for Job.

Mr. Bond: Should a landscape foreman see his stock before leaving for his job?

Mr. Kane: I believe he should. Let's assume that we have a shipper that is going to check the stock on the truck. The shipper doesn't plant the stock; I do. If I get the job, I can't tell the customer it is the shipper's fault. It is my responsibility; therefore I want to know what the stock is before I leave my place of business.

Mr. Bond: What do you think the foreman should do out on the nursery, particularly if he sees on the order sheet the words, "Canadian hemlock, 5 or 6-foot specimen?" Should he take that hemlock, which he knows isn't a specimen, just because it is there?

Mr. Robbins: It is the natural thing that it shouldn't be put on a truck, but can we dispute it? Sometimes when a plant is not up to size, we say we will not take it. They say, "Well, take it; that's all we've got." What can we say? We have to take the plant; that's all.

Mr. Hopkins: I think the foreman should pick out the plant, if he has the chance, and see that it is a specimen before it goes on the job. Sometimes he doesn't have that opportunity, because he is not always there, and, again, we don't always have it.

Mr. Bond: Do you think it would be good practice in a nursery, Mr. Kane, that the landscape foreman be allowed a little more time so as to see the material before it goes?

Mr. Kane: I generally see the stock before it goes out. The stock in your packing shed is going to be loaded onto your truck. I don't know of too many planting jobs where you use all specimens. We generally use good average plants. If there is a particularly poor plant, naturally you have to replace it. But as to checking each plant individually, and turning around and getting a new plant for



Willard Bond.

any poor one, I don't think it is very practical. There is quite a mad dash the first thing in the morning, trying to get out, and unless you have a particularly poor plant, you check your load and take off. That way, we also please the boss.

Selling Additional Plants.

Mr. Bond: Do you think it is a good practice for landscape foremen to try to sell additional material when you are on the job?

Mr. Robbins: That is a question of the responsibilities of a foreman. If additional stock is to be sold while you are on the job, sell it. I always try to, and I will do my best to sell a person one or two plants if I see at all that she is interested in it.

Mr. Kane: I believe it is the foreman's job, undoubtedly, but I think we get into something else when we start discussing it. A salesman has sold the job already. Is it going to meet the salesman's desires to sell additional stock? But I think the landscape foreman should sell the

stock, whether the landscape salesman likes it or not.

Mr. Hopkins: I think the foremen should sell any stock that he can, regardless of whether the job has been sold by a landscape architect or salesman. If the customer wants it and there is a place to put it and it will look well, I think he should sell it.

Satisfying the Customer.

Mr. Bond: Here is a \$64 question that every foreman has. If you arrived on a job with material that has been sold by a fast-talking salesman, but it has not quite met with what the customer expected, do you think it is your responsibility to try to soothe her with some "Italian balm?" Is it better to try to fix it up yourself the best way you can, or do you think you should call the office and get help from there?

Mr. Robbins: I can say that you have sure got a job on your hands, but it is your duty to try to put it over. I have found it so in the past. Usually if you take a few minutes to study the person's character, you can usually persuade her to take that load of stock. It doesn't take too long, probably fifteen or twenty minutes, and I think if you are at all a salesman, you will put it over.

Mr. Hopkins: I think the foreman should do the best he can, and if he can't satisfy the customer in any way, then it is time to call the office or the salesman that made the sale in the first place. Sometimes I have loaded up a truck of stock twice and unloaded it before I got it planted on the job, but I did after a while.

Mr. Kane: I think if the stock is good to start with and the general layout for the job and for the setup is right, by all means convince the customer she should take it. Possibly she anticipated a garden of Eden and the stock is not up to her imagination of it. By all means, the foreman should take the responsibility of conducting the job and getting it done. I don't see how calling the salesman—of course, most of us landscapers feel we know more about designing than the salesman anyway—is going to help any. If you believe in your stock and your company you have got to carry out the job.

Extra Work.

Mr. Bond: How should you handle the customer, when you are planting a job on a contract price and she asks you to put this plant here and

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Progress by Rhode Island Association

By Arthur S. Lewis, Publicity Chairman

The annual meeting of the Rhode Island Nurserymen's Association was held March 1 at Johnson's Hummocks Grill, Providence. After the call to order by President Rudolf Wallitsch, of the Sunset Nursery, Johnston, the roll call revealed that this was the largest gathering in the association's history.

To serve as officers for the ensuing year Manuel P. Cabrita, of Cedarhurst Nurseries, Inc., East Providence, was advanced from vice-president to president; Alfred Angel, Boulevard Nurseries, Newport, was elected vice-president; J. C. Brownell, Rhode Island Nurseries, Newport, was reelected secretary, and K. J. Murphy, East Providence Nurseries, East Providence, was reelected treasurer.

Annual reports were read by Secretary J. C. Brownell and various committee chairmen and were received by the members with much interest and enthusiasm. In his report Treasurer K. J. Murphy stated that the association had the largest sum in the treasury yet recorded.

The membership chairman, Manuel P. Cabrita, introduced twelve new members, who formed the largest group accepted for membership at one time, for which the committee was congratulated by President Wallitsch. This brings the total membership to fifty-three, including three associate members.

Reporting for the publicity committee, Chairman Arthur S. Lewis, of the Cedarhurst Nurseries, Inc., East Providence, told of the association's monthly radio broadcasts during the past year which have been received with much enthusiasm by listeners, so much, in fact, that response has been overwhelming and questions on gardening and care of nursery stock are many. Through these broadcasts the association has endeavored to create interest in and give the public a better knowledge of horticulture, and at the same time the public is being made aware of the importance of patronizing members of the association.

The program is broadcast over station WPJB in conjunction with Mrs. Sue Bailey Reid's program "Facts for Farmers." The members feel that the market for nursery products has greatly increased from this publicity.

The committee was commended for its good work in this regard and also

for securing exhibit space for nursery stock at the Farm and Home Congress held March 7 to 10 at Providence under the auspices of the Rhode Island Agricultural Conference, the state department of agriculture and the state college.

In reporting for the legislative committee, Chairman A. Williams, of Forest Hills Nurseries, Inc., Cranston, and Alfred Angel, of the Boulevard Nurseries, Newport, stressed the

dangerous possibility of double taxation of nursery stock sold both wholesale and retail and the importance of having some definite understanding with the state tax administrator about this. Mr. Angel called attention to the uncomprehensive and controversial "unincorporated business tax" situation, article IX, chapter 1212 of the 1942 public laws, as amended by chapter 1339 of the 1943 public laws of the state of Rhode Island.

Speakers for the day included Prof. Harrison Myrick, of Bryant College, whose subject was "Competitive Selling in the Nursery Field"; Dr. Theodore E. Keer, research entomologist of Rhode Island State College, whose topic was "New Developments on Insects," and Mrs. Sue Bailey Reid, farm director of radio station WPJB, whose talk was concerned with her daily program, "Facts for Farmers." She asked for cooperation from members of the association when they were called upon to take part in the monthly round-table discussions on gardening.

MANUEL P. CABRITA.

After serving as vice-president and as membership chairman for the past year, Manuel P. Cabrita has been elected president of the Rhode Island Nurserymen's Association.

A nurseryman all his life, Mr. Cabrita started nursery work when he was 12 years old, working during summer vacations at the Rhode Island Nurseries, Newport. In 1924 he became assistant to Martin Van Hof, the firm's propagator. Two years later he left to accept a similar position with the Boulevard Nurseries, also at Newport. After thirteen years with that firm he became propagator and treasurer for the Cedarhurst Nurseries, Inc., East Providence, with which he is still associated.

Mr. Cabrita and his wife have a young son and daughter.

ONE of the highlights of a month's visit to Mexico for Mr. and Mrs. C. A. Chandler, Chandler Landscape & Floral Co., and Mr. and Mrs. Charles Williams, Williams & Harvey Nurseries Co., both of Kansas City, Mo., was Mr. Chandler's catch of a 10-foot swordfish. The two couples made the trip in a new Oldsmobile car, driving to Mexico City and Acapulco.



RUDOLF WALLITSCH.

Retiring president of the Rhode Island Nurseryman's Association, Rudolf Wallitsch was cited last year as Rhode Island's outstanding conservationist. He is a charter member of the Rhode Island Wildlife Federation, president of the Johnston Wildlife Restoration Club and a member of the Rhode Island Fish and Game Protective Association.

Born in Transylvania during the Austria-Hungarian regime, Mr. Wallitsch graduated with a biology major from Herrmannstadt College, in Transylvania, and became a staff assistant at the Cosmos Institute of Research, Stuttgart, Germany.

Since 1924, Mr. Wallitsch has made a specialty of hybridizing a hardy walnut, which he has named the Carpathian walnut. For the past several years he has been developing a dwarf type prunus with edible fruit for ornamental purposes and for rootstocks. He is one of the largest beekeepers in Rhode Island, and has served for twenty-three years as first vice-president of the Rhode Island Beekeeper's Association. He specializes in cross pollination in apple orchards.

Other organizations Mr. Wallitsch belongs to are the Rhode Island Botany Club, the Rhode Island Arborist Association, the Rhode Island Agriculture Conference, the Pollution Abatement Committee and the German Dramatic Society.

Mr. Wallitsch and his wife have three sons; the oldest, Hermann, has established his own business in Kentucky; the other two sons are associated with their father in business, the Sunset Nursery, Johnston.

Canadians Adopt Grade Standards

By L. C. Keith

Most important of the business transacted at the twenty-seventh annual meeting of the Canadian Association of Nurserymen, held March 2 and 3 at the Royal York hotel, Toronto, Ont., was the unanimous adoption of a set of horticultural grade standards to help insure uniformity of quality and appearance of nursery stock among members of the association. Henceforth, all members are to sell as first-class products only those which are hardy to the climate, uniform in appearance and true to name.

New Officers.

J. A. Aitken, Rosehill Nurseries, Ltd., Brantford, Ont., was unanimously elected president for the coming year and T. A. Torgeson, Prairie Nurseries, Estevan, Sask., vice-president. The retiring president, Spencer McConnell, McConnell Nursery, Port Burwell, was made an honorary past president. Those elected to the board of directors included J. V. Stensson, Sheridan Nurseries, Ltd., Toronto, Ont.; Harry Endean, Endean Nurseries, Ltd., Richmond Hill, Ont.; Frank Fidler, H. C. Downham Nursery Co., Ltd., Strathroy, Ont.; John Connon, John Connon Nurseries, Waterdown, Ont., and Norman Scott, Brookdale-Kingsway, Ltd., Bowmanville, Ont. Chairmen of the committees also help compose the board of directors and include William Haist, tariff; S. C. Wellington, trade practices; John Connon, highway planting; Leslie Hancock, research; W. B. Wellington, finance; W. A. Hogle, membership; H. M. Eddie, plant patents, and A. B. Luke, horticultural standards.

Business Session.

The business session held the first morning was for voting members only. In his opening remarks, President Spencer McConnell reviewed convention activities, pointed out that membership in the association had more than doubled in the past two or three years, and that the most important matter before the group was the final report on grade standards for nursery stock by the committee under the chairmanship of A. B. Luke.

The secretary-treasurer's report, given by Robert Burns, executive assistant, noted the increased membership in the association, which has become national in scope. The report stated that the carefree days of war-

time business have passed, and the tone of present-day business is felt in the increased demands for service from the association. Competition has increased. At a recent meeting of the Canadian Horticultural Council, Mr. McConnell and Jack Aitken met with representatives of the Dutch government and the Holland Exporters' Association, and it was hoped that as a result of the meeting the traditional market of the nurserymen in Canada would be less disturbed.

Mention was made of the success



Spencer McConnell.

of the short course for nurserymen held at the Ontario Agricultural College at Guelph last September. The research committee asked that problems which could not be solved individually without great expense of money, time and energy be placed before the universities and experimental farms which undertake to solve such problems.

Advice from L. C. Chadwick.

President McConnell welcomed all nurserymen to the open session in the afternoon. In discussing "General Nursery Problems," L. C. Chadwick, of the department of horticulture, Ohio State University, mentioned some of the research work being undertaken at Ohio State University. He considered the most important problems dealing with ornamentals to be production, storage, sales and maintenance.

Soil is most important to produc-

tion, and Dr. Chadwick advised that organic matter be built up with a sod crop or heavy mulches. The first method is preferred. Green manure alone does not build up soil. Considering the fertilizer to use, he recommended, as far as nitrogen, phosphorous and potash are concerned, a 4-20-10 fertilizer on sod, 4-12-4 or 10-6-4 mixtures on a long-time crop, depending on growth habits, and a 3-12-12 fertilizer on root crops, such as peonies and gladioli, etc.

If preliminary tests are correct, foliage sprays have a definite tie-in with the fertilizer program. Dr. Chadwick stated that 2,4-D had not proved satisfactory on nursery stock. Good indications are that TCA may control quack grass, and 100 pounds per acre was suggested. Application should be made after the soil has been plowed. As the material is toxic to plants, a lapse of time is necessary before planting, and a 2-month interval is considered safe.

Regarding pest control, Dr. Chadwick said that Parathion, at the rate of one and one-half pounds to 100 gallons of water, gave almost complete control of mealy bugs on taxus. C-954 was reported to be an excellent control for red spider. Di-nite has also brought good results.

In discussing storage problems, 32 to 35 degrees Fahrenheit was considered by Dr. Chadwick to give best results for rose storage. He mentioned some of the results obtained from quick freezing and touched on the subject of pruning.

For treating burlap he suggested copper naphthanate as a good preservative. Cop-ex was recommended.

As a healing medium, sphagnum moss, peat moss, sand or old sawdust were suggested.

To defoliate plants quickly Dr. Chadwick recommended Nacconol, at the rate of two to two and one-half per cent Nacconol plus one and one-half to two per cent oil. This works best when applied late in the season.

Dr. Chadwick spoke briefly on the subject of maintenance and the nurserymen's responsibility to the client, and said that the nurseryman should provide the client with good stock.

Other Talks of the Day.

C. J. Laurin, president of the Magazine Publishers' Association, was the second speaker, and he spoke on "Advertising and Merchandising." In summarizing the basic prin-

First Postwar Maryland Short Course

By James P. Gurney

Approximately seventy-five nurserymen from many of the eastern states met at the University of Maryland, College Park, February 14 and 15, to take part in the nurserymen's short course which was held under the auspices of the extension service of the university and the Maryland Nurserymen's Association. This was the first short course held since before the war, and was presided over by the president of the Maryland Nurserymen's Association, J. Hammond Brandt, J. W. Brandt Nursery Co., Upper Falls.

The welcoming address was given by Dr. Thomas B. Symons, dean of the college of agriculture, who stated that the better citizen is the landowner, and that it is up to the nurserymen to encourage apartment dwellers to get back to the land. One way this can be accomplished is to show the man who owns no property how beautiful a home can be made.

Dr. Conrad B. Link, department of horticulture, gave a progress report of research at the University of Maryland. "It is impossible at this time," he said, "to conduct any extensive work until the new greenhouses are completed." Experimental work is in progress, though, to determine the relationship of the nutritional level of the stock plant upon the rooting of cuttings. He pointed out that Maryland is the center of a great variety of plant materials which are not too widely used because they are difficult to propagate.

Physiological and anatomical studies are being carried on to determine the effect of wounding on the rooting of cuttings.

A study is being made to observe the response of azaleas to the lack of nitrogen, phosphorus, potassium and many of the minor elements. Work is also being carried on with hydrangeas to study the effect of nitrogen, phosphorus and potassium on growth during forcing and on the flower color.

In 1948 more organic chemicals were used than ever before to increase plant size and production, stated Dr. Paul Marth, United States Department of Agriculture. The main reason for the great increase in their use is that organic chemicals are highly active in dilute concentrations. Dr. Marth pointed out, though, that one chemical is not effective for all plants.

John Creech, division of plant ex-

ploration and introduction, United States Department of Agriculture, explained the work being done on the propagation of rhododendrons and azaleas at Glenn Dale, Md. He stated that both of these plants grow well from seeds. Sphagnum moss is being used for ericaceous seeds because it prevents damping-off, and the seedlings can be left in the flat without harm for several years.

Evergreen azaleas can be propagated in the artificially lighted underground house which maintains a high humidity and a cooler summer temperature, never over 85 degrees Fahrenheit.

One of the azaleas which has been neglected is *Azalea atlantica*, which will stand temperatures up to 120 degrees, is stoloniferous in its habit and fragrant. It is hoped that through hybridization these qualities of *Azalea atlantica* can be transmitted, thereby bringing deciduous azaleas into wider use.

Some of the many diseases and insects which are becoming more and more of a problem to the nurserymen were discussed and suggestions were made as to their control.

One of the main causes of diseases of shade trees is poor planting by the nurserymen, stated Dr. Curtis May, division of forest pathology, United States Department of Agriculture. It is up to the nurseryman to select the best plant for the location, to supply proper drainage for the plant and to prepare the soil by the addition of fertilizer and organic matter.

In the nursery it is of utmost importance to use only clean stock in disease-free soil, explained Dr. Walter F. Jeffers, department of plant pathology, University of Maryland. The lowering of the pH for some plants and adequate spacing, as well as insect control, can do much to prevent the spread of disease.

Dr. George S. Langford, department of entomology, said that a year-around spraying schedule of ornamental plants is the only sure way to control destructive insects. The nurseryman must familiarize himself with workable spray schedules and then sell the idea to his customers.

Two of our best shade trees, the American elm and the oak, are being attacked by numerous insects. Twenty-two species of insects attack the American elm during the month of May, and the oak has even more.

Parathion is the most promising insecticide, according to Dr. Ernest N. Cory, head of the department of entomology. Its use is not recommended at this time except by a qualified expert because it is such a deadly poison. DDT is also a good insecticide. The newest insect control methods are "systemic insecticides," which are taken into the plant tissue. The effects of insecticides should be known before they are used. Until new insecticides have been tried and proven by others, it is best to use those that have been shown to give satisfactory results.

Dr. Carroll E. Cox, department of plant pathology at the university, advised the use of fungicides by nurserymen to obtain quality stock. Each year it is becoming more necessary to use fungicides in the nursery. Sulphur and the copper compounds are the most important fungicides in use today. Approximately 70,000 tons of sulphur and 12,000 tons of copper compounds are utilized each year for this purpose. The organic compounds have now been named for easier identification, Thiram, Ferbam, Ziram, Nebam and Zineb. It is of the utmost importance to apply a fungicide before there is an indication of disease, because the fungicide is a protection, not a cure. Unless the application of the fungicide is thorough in its coverage and repeated on new growth, time and money are being wasted. New methods are being developed for better fungicidal control, but care must be exercised in using these on a large scale until their effect is known under all conditions.

According to Dr. Fred V. Grau, director of the greens section of the United States Golf Association, most lawns are in a poor condition because there is a need for the development of stronger grasses to combat insects, weeds and diseases, to withstand the high humidity of summer and short cutting. A mixture of Merion bluegrass and *Zoysia japonica* is especially designed to fight crab grass, requires fertilizing twice a year and does not need irrigation or insecticides. This has been developed at Beltsville, Md., and should be available for general use in two or three years. Merion bluegrass, which has also been developed at Beltsville, has been found to have many of the qualities needed for a good lawn. New mechanical equipment is now available for aeration, which is es-

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	Small	Medium	Large
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Auratum Lily, Gold-band.....	25.00	32.50	37.50

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Almond, Pink-flowering, 2 to 3 ft.	40.00		Forsythia Fortunei, 4 to 5 ft.	40.00	
Almond, Pink-flowering, 3 to 4 ft.	50.00		Forsythia Intermedia, 12 to 18 ins.	15.00	125.00
Althaea, Bush, assorted colors, 12 to 18 ins.	10.00	\$ 75.00	Forsythia Intermedia, 18 to 24 ins.	18.00	150.00
Althaea, Bush, assorted colors, 18 to 24 ins.	15.00	125.00	Forsythia Intermedia, 2 to 3 ft.	30.00	
Althaea, Bush, assorted colors, 2 to 3 ft.	20.00	150.00	Forsythia Intermedia, 3 to 4 ft.	35.00	300.00
Althaea, Bush, assorted colors, 3 to 4 ft.	25.00		Forsythia Intermedia, 4 to 5 ft.	40.00	
Althaea, Tree Form, assorted colors, 4 to 5 ft.	50.00	400.00	Forsythia Spectabilis, 12 to 18 ins.	15.00	125.00
Althaea, Tree Form, assorted colors, 5 to 6 ft.	60.00		Forsythia Spectabilis, 18 to 24 ins.	18.00	150.00
Aralia Pentaphylla, 12 to 18 ins.	15.00		Forsythia Spectabilis, 2 to 3 ft.	30.00	250.00
Barberry, Korean, 12 to 18 ins.	15.00		Forsythia Spectabilis, 3 to 4 ft.	35.00	
Barberry, Korean, 18 to 24 ins.	17.50		Forsythia Spectabilis, 4 to 5 ft.	40.00	
Barberry, Korean, 24 to 30 ins.	20.00		Forsythia Suspensa, 12 to 18 ins.	15.00	125.00
Barberry, Korean, 30 to 36 ins.	25.00	225.00	Forsythia Suspensa, 18 to 24 ins.	18.00	150.00
Barberry, Thunbergi, 9 to 12 ins.	9.00	75.00	Forsythia Suspensa, 2 to 3 ft.	30.00	250.00
Barberry, Thunbergi, 12 to 15 ins.	15.00	120.00	Forsythia Suspensa, 3 to 4 ft.	35.00	300.00
Barberry, Thunbergi, 15 to 18 ins., 3-yr., heavy	18.00	160.00	Honeysuckle, Bella Albida, 2 to 3 ft.	30.00	
Barberry, Thunbergi, 18 to 24 ins., 3-yr., heavy	22.00	200.00	Honeysuckle, Bella Albida, 3 to 4 ft.	40.00	
Barberry, Thunbergi, 24 to 30 ins., 3-yr., heavy	28.00	250.00	Honeysuckle, Bella Albida, 4 to 5 ft.	50.00	
Barberry, Thunbergi, 30 to 36 ins., 3-yr., heavy	32.00	300.00	Honeysuckle, Fragrantissima, 12 to 18 ins.	15.00	
Barberry, Red-leaved, 15 to 18 ins.	28.00		Honeysuckle, Fragrantissima, 18 to 24 ins.	20.00	
Barberry, Red-leaved, 18 to 24 ins.	35.00		Honeysuckle, Fragrantissima, 2 to 3 ft.	30.00	
Barberry, Red-leaved, 24 to 30 ins.	40.00		Honeysuckle, Grandiflora Rosea, 2 to 3 ft.	25.00	
Barberry, Red-leaved, 30 to 36 ins.	50.00		Honeysuckle, Grandiflora Rosea, 3 to 4 ft.	35.00	
Buddleia Farquhari and Magnifica, 2-yr., No. 1.	20.00		Honeysuckle, Grandiflora Rosea, 4 to 5 ft.	45.00	
Buddleia Pink Charming, 2-yr., No. 1.	25.00		Honeysuckle, Morrowi, 2 to 3 ft.	25.00	
Buddleia Pink Charming, 2-yr., No. 2.	15.00		Honeysuckle, Morrowi, 3 to 4 ft.	35.00	
Caragana Arborescens, 12 to 18 ins.	12.00		Honeysuckle, Morrowi, 4 to 5 ft.	45.00	
Cercis Canadensis, 12 to 18 ins.	15.00		Honeysuckle, Tatarian, pink, 18 to 24 ins.	20.00	
Cercis Canadensis, 18 to 24 ins.	20.00		Honeysuckle, Tatarian, pink, 2 to 3 ft.	30.00	
Cornus Alba Sibirica, 12 to 18 ins.	15.00	125.00	Honeysuckle, Tatarica Rubra, 2 to 3 ft.	30.00	
Cornus Alba Sibirica, 18 to 24 ins.	20.00	150.00	Honeysuckle, Tatarica Rubra, 3 to 4 ft.	40.00	
Cornus Alba Sibirica, 3 to 4 ft.	30.00		Honeysuckle, Tatarica Rubra, 4 to 5 ft.	45.00	
Cornus Alba Sibirica, 4 to 5 ft.	40.00		Honeysuckle, Tatarian, white, 12 to 18 ins.	15.00	
Cornus Amomum, 18 to 24 ins.	15.00		Honeysuckle, Tatarian, white, 18 to 24 ins.	20.00	
Cornus Amomum, 2 to 4 ft.	25.00		Honeysuckle, Tatarian, white, 2 to 3 ft.	30.00	
Cornus Amomum, 4 to 5 ft.	30.00		Honeysuckle, Tatarian, white, 3 to 4 ft.	30.00	
Cornus Florida, 3 to 4 ft.	100.00		Honeysuckle, Zabell, 18 to 24 ins.	20.00	
Cornus Florida, 4 to 5 ft.	125.00		Honeysuckle, Zabell, 2 to 3 ft.	30.00	
Cornus Florida Rubra, 2 to 3 ft., bare root.	175.00		Honeysuckle, Zabell, 3 to 4 ft.	40.00	
Cornus Paniculata, 18 to 24 ins.	15.00		Honeysuckle, Zabell, 4 to 5 ft.	45.00	
Cornus Stolonifera Flaviramea Lutea, 18 to 24 ins.	20.00		Hydrangea Arborescens Grandiflora, 18 to 24 ins.	40.00	
Cornus Stolonifera Flaviramea Lutea, 3 to 4 ft.	40.00		Hydrangea Arborescens Grandiflora, 2 to 3 ft.	50.00	
Cornus Stolonifera Flaviramea Lutea, 4 to 5 ft.	50.00		Hydrangea Arborescens Grandiflora, 3 to 4 ft.	60.00	
Cydonia Japonica, upright, red, 12 to 18 ins.	20.00		Hydrangea Arborescens Grandiflora, 4 to 5 ft.	75.00	
Cydonia Japonica, upright, red, 18 to 24 ins.	30.00		Hydrangea Pinnatifida Grandiflora, 12 to 18 ins.	25.00	
Deutzia Lemolne, 9 to 12 ins.	18.00	150.00	Hydrangea Pinnatifida Grandiflora, 2 to 3 ft.	45.00	
Deutzia Lemolne, 12 to 15 ins.	22.00		Lilac, Persian, 12 to 18 ins.	20.00	175.00
Deutzia Lemolne, 15 to 18 ins.	25.00		Lilac, Persian, 18 to 24 ins.	30.00	250.00
Deutzia Pride of Rochester, 12 to 18 ins.	15.00		Lilac, Persian, 2 to 3 ft.	40.00	350.00
Deutzia Pride of Rochester, 18 to 24 ins.	20.00		Lilac, Vulgaris, purple, 18 to 24 ins.	25.00	
Deutzia Pride of Rochester, 2 to 3 ft.	25.00		Lilac, French, Alphonse Lavallee, 12 to 18 ins.	35.00	
Forsythia Fortunei, 12 to 18 ins.	15.00	125.00	Lilac, French, Alphonse Lavallee, 18 to 24 ins.	50.00	
Forsythia Fortunei, 18 to 24 ins.	18.00	150.00	Lilac, French, Chas. X., 12 to 18 ins.	35.00	
Forsythia Fortunei, 2 to 3 ft.	30.00	250.00	Lilac, French, Chas. X., 18 to 24 ins.	50.00	
			Lilac, French, Marie Le Graye, 12 to 18 ins.	35.00	
			Lilac, French, Marie Le Graye, 18 to 24 ins.	50.00	
			Lilac, French, Michel Buchner, 12 to 18 ins.	35.00	
			Lilac, French, Michel Buchner, 18 to 24 ins.	50.00	
			Lilac, French, Michel Buchner, 2 to 3 ft.	60.00	
			Philadelphus Avalanche, 12 to 18 ins.	15.00	
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sential for a good lawn. Because this equipment is too expensive for the average homeowner, many nurserymen may add this to their maintenance services.

"The visual art of nursery design is an applied art which must be practical," stated Prof. Joseph Pullman Porter, department of floriculture and ornamental horticulture, Cornell University, Ithaca, N. Y., in his talk on "Principles of Landscape Design." The home and grounds should reflect the character of the people who live there, and the purpose of designing the home grounds must be for greater usefulness and enjoyment of the land. The small rambling type of home, which is becoming more popular because of its utility, requires the use of horizontal lines in plant materials for the best effect. The extreme picture windows are found to be more attractive when a portion of

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18 to 24 ins.	20.00
2 to 3 ft.	25.00
3 to 4 ft.	35.00
Philadelphus Pyramidalis, 12 to 18 ins.	15.00	\$125.00
Philadelphus Pyramidalis, 18 to 24 ins.	20.00	150.00
Philadelphus Pyramidalis, 2 to 3 ft.	25.00	200.00
Philadelphus Pyramidalis, 3 to 4 ft.	30.00	250.00
Philadelphus Pyramidalis, 4 to 5 ft.	35.00	.....
Philadelphus Virginialis, 12 to 18 ins.	25.00	.....
Philadelphus Virginialis, 18 to 24 ins.	40.00	.....
Philadelphus Virginialis, 2 to 3 ft.	50.00	.....
Privet, Amur River North, 12 to 18 ins., 3 br.	8.00	70.00
Privet, Amur River North, 18 to 24 ins., 3 br.	10.00	90.00
Privet, Amur River North, 3 to 4 ft., 4 br.	16.00	140.00
Privet, Amur River North, 4 to 5 ft.	25.00	200.00
Privet, Ibolium, 12 to 18 ins., 3 br.	7.00	60.00
Privet, Regel, 12 to 18 ins., light	15.00	.....
Rhus Cotinus, 12 to 18 ins.	30.00	.....
Rhus Cotinus, 18 to 24 ins.	40.00
Rosa Multiflora, from cuttings, 1-yr., heavy	4.00	35.00
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Sambucus Canadensis, 4 to 5 ft.	45.00
Spiraea Anthony Waterer, 9 to 12 ins.	18.00
Spiraea Anthony Waterer, 24 to 30 ins.	40.00
Spiraea Arguta, 12 to 18 ins.	18.00
Spiraea Arguta, 18 to 24 ins.	25.00
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Spiraea Bethlehemensis, 18 to 24 ins.	20.00
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Spiraea Billiardii, 18 to 24 ins.	15.00	125.00
Spiraea Billiardii, 2 to 3 ft.	20.00	150.00
Spiraea Billiardii, 3 to 4 ft.	25.00	.....
Spiraea Froebeli, 9 to 12 ins.	15.00	.....
Spiraea Froebeli, 15 to 18 ins.	20.00	.....
Spiraea Opulifolia Aurea, 12 to 18 ins.	15.00	.....
Spiraea Opulifolia Aurea, 18 to 24 ins.	20.00
Spiraea Opulifolia Aurea, 4 to 5 ft.	45.00
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Spiraea Opulifolia Nana, 15 to 18 ins.	20.00
Spiraea Opulifolia Nana, 18 to 24 ins.	25.00
Spiraea Opulifolia Nana, 2 to 3 ft.	30.00	.....
Spiraea Opulifolia Nana, 3 to 4 ft.	40.00	.....
Spiraea Thunbergii, 12 to 18 ins.	20.00	.....
Spiraea Thunbergii, 18 to 24 ins.	25.00	.....
Spiraea Vanhouttei, 18 to 24 ins.	15.00	125.00
Spiraea Vanhouttei, 2 to 3 ft.	22.00	200.00
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Symphoricarpos Chenaultii, 18 to 24 ins.	20.00
Symphoricarpos Chenaultii, 2 to 3 ft.	25.00
Symphoricarpos Chenaultii, 3 to 4 ft.	30.00	.....
Symphoricarpos Vulgaris, 12 to 18 ins.	12.00	100.00
Symphoricarpos Vulgaris, 18 to 24 ins.	15.00	125.00
Symphoricarpos Vulgaris, 2 to 3 ft.	20.00	150.00
Tamarix Amurensis or Gallica, 12 to 18 ins.	12.00	.....
Tamarix Amurensis or Gallica, 18 to 24 ins.	15.00	.....
Tamarix Amurensis or Gallica, 2 to 3 ft.	20.00	.....
Viburnum Americanum, 12 to 18 ins.	20.00	.....
Viburnum Lentago, 18 to 24 ins.	20.00	.....
Viburnum Lentago, 2 to 3 ft.	30.00	.....
Viburnum Mollie, 12 to 18 ins.	15.00	.....
Viburnum Mollie, 18 to 24 ins.	20.00	.....
Viburnum Mollie, 2 to 3 ft.	30.00	.....
Weigela Abel Carriere, 12 to 18 ins.	15.00	.....
Weigela Abel Carriere, 18 to 24 ins.	20.00	.....
Weigela Abel Carriere, 2 to 3 ft.	30.00	.....
Weigela Abel Carriere, 3 to 4 ft.	35.00	.....
Weigela Eva Rathke, 12 to 18 ins.	25.00	200.00
Weigela Eva Rathke, 18 to 24 ins.	30.00	250.00
Weigela Eva Rathke, 2 to 3 ft.	35.00	300.00
Weigela Eva Rathke, 3 to 4 ft.	40.00	350.00
Weigela Eva Rathke, 4 to 5 ft.	45.00

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Weigela Floribunda, 12 to 18 ins.	\$25.00
Weigela Floribunda, 18 to 24 ins.	30.00
Weigela Floribunda, 2 to 3 ft.	35.00
Weigela Rosa, 12 to 18 ins.	15.00	.....
Weigela Rosa, 18 to 24 ins.	20.00	.....
Weigela Rosa, 2 to 3 ft.	25.00
Weigela Rosa, 3 to 4 ft.	35.00
Weigela Rosa, 4 to 5 ft.	45.00

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Ampelopsis Tricuspidata (Boston Ivy), 3-yr., No. 1.	\$35.00
Ampelopsis Tricuspidata (Boston Ivy), 2-yr., No. 1.	30.00
Honeysuckle, Flaming Beauty (Heckrottii), 2-yr., No. 1	25.00
Honeysuckle, Halliana, 2-yr., No. 1	20.00
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Lycium Chinense, 2-yr., med.	12.00

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	Per 1000
Crataegus Crusgalli, 10 to 12 ins.	\$ 70.00
Crataegus Crusgalli, 12 to 15 ins.	80.00
Magnolia Soulangiana, pink, 12 to 18 ins.	650.00
Magnolia Soulangiana, pink, 18 to 24 ins.	750.00
Populus Nigra Italica (Lombardy), 6 to 12 ins.	15.00
Populus Nigra Italica (Lombardy), 12 to 18 ins.	20.00
Populus Nigra Italica (Lombardy), 18 to 24 ins.	25.00
Populus Nigra Italica (Lombardy), 4 to 5 ft.	80.00
Althaea, named varieties from cuttings, 12 to 18 ins.	30.00
Althaea, named varieties from cuttings, 18 to 24 ins.	35.00
Deutzia Lemoine, 2-yr. T., 6 to 9 ins.	100.00
Deutzia Lemoine, 2-yr. T., 9 to 12 ins.	150.00
Forsythia Fortunei and Spectabilis, 6 to 12 ins.	30.00
Forsythia Fortunei and Spectabilis, 12 to 18 ins.	35.00
Forsythia Fortunei and Spectabilis, 18 to 24 ins.	40.00
Honeysuckle, Bella Albida, 15 to 18 ins.	40.00
Honeysuckle, Morrowi, 12 to 18 ins.	40.00
Honeysuckle, Morrowi, 18 to 24 ins.	50.00
Honeysuckle, Tatarian, red, 18 to 24 ins.	80.00
Hydrangea P. G., 1-yr., R.C. (\$50.00 per 1000 in 5000 lots)	60.00
Hydrangea P. G., 2-yr. T.	100.00
Philadelphus Coronarius, 6 to 12 ins.	40.00
Philadelphus Coronarius, 12 to 18 ins.	50.00
Philadelphus Coronarius, 18 to 24 ins.	60.00
Privet Amur River North, 12 to 18 ins.	35.00
Spiraea Billiardii, 12 to 18 ins.	30.00
Spiraea Billiardii, 18 to 24 ins.	40.00
Spiraea Froebeli, 9 to 12 ins.	75.00
Spiraea Froebeli, 12 to 15 ins.	100.00
Tamarix Gallica, 2 to 3 ft.	50.00
Tamarix Gallica, 3 to 4 ft.	75.00
Viburnum Dentatum, 8 to 12 ins.	75.00
Viburnum Opulus Sterile, 1-yr., R.C.	60.00
Weigela Rosa, 12 to 18 ins.	50.00
Ampelopsis Tricuspidata (Boston Ivy), 2-yr., 9 to 12 ins., sdigs.	50.00

We also have a surplus of Climbing, Bush, Floribunda and Polyantha Roses; also Fruit Trees, Small Fruits, Shade Trees and Evergreens. Write for Spring, 1950, catalog.

them is shaded or covered by a shrub, tree or vine.

Today, only 500,000 horticulture magazines are being sold, which is just scratching the surface of the amateur's interests in plants, according to Henry T. Skinner, curator of the Morris Arboretum, Philadelphia, Pa. The nurserymen could do much to encourage the amateur by recommending preferred and unusual varieties of trees and shrubs. It is not necessary to go to extremes, but the nurserymen should endeavor to create the landscape that will be individualistic.

A panel discussion entitled "What Woody Ornamental Plants Should Be Eliminated from Our Nursery Lists" was led by Prof. Pardon W. Cornell, department of horticulture, University of Maryland. Members of the panel were Dr. Ernest N. Cory, Dr. Conrad B. Link and Henry Skinner,

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FAIRPORT, N. Y.

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1,000,000 Transplanted Liners, well grown, hardy stock.

Heavy liners from field beds of 1, 2 and 3-year plantings. X indicates times transplanted. 25 of a kind at 100 rate; 300 of a kind at 1000 rate. Shipped express or parcel post. Terms: Cash with order and packing free; otherwise 1/3 deposit, balance C.O.D., and packing charged at cost. Japanese beetle certification provided upon request. Write for our latest listing of nursery stock. Ready now.

	100 rate each	1000 rate each
<i>Althaea</i> (<i>Hibiscus Syriacus</i>), Rose of Sharon, 5 to 10 ins., sdig., 1-yr.	\$.03	\$.02
<i>Althaea</i> (<i>Hibiscus Syriacus</i>), Rose of Sharon, 10 to 20 ins., sdig., 2-yr. ....	.05	.03
<i>Azalea mollis</i> , 5 to 9 ins., XX, 3-yr. branched. ....	.45	.40
<i>Azalea mollis</i> , 9 to 12 ins., XX, 3-yr. branched (B&B add 25c). ....	.65	.55
<i>Azalea mollis</i> , 12 to 15 ins., XX, 4-yr. branched (B&B add 25c).	1.00	..
<i>Berberis thun. atropurpurea</i> , 8 to 12 ins., X, 2-yr. ....	.17	..
<i>Buxus sempervirens</i> , 4 to 8 ins., XX, 2-yr. ....	.18	..
<i>Buxus welleri</i> , 2 to 5 ins., X, 1-yr. ....	.18	..
<i>Buxus welleri</i> , 4 to 8 ins., 2-yr. ....	.25	..
<i>Calycanthus floridus</i> , 4 to 10 ins., sdig., 1-yr. ....	.05	.04
<i>Chamaecyparis lawsoniana</i> , 8 to 12 ins., sdig., 2-yr. ....	.10	.08
<i>Chamaecyparis law. allumi</i> , X, 6 to 10 ins., 1-yr. ....	.15	.13
<i>Chamaecyparis law. allumi</i> , X, 10 to 15 ins., 2-yr. ....	.20	.18
<i>Chamaecyparis filifera aurea</i> , 4 to 8 ins., X, 1-yr. ....	.15	.12
<i>Chamaecyparis filifera aurea</i> , 8 to 10 ins., X, 1-yr. ....	.15	.12
<i>Cytisus purpureus</i> , Scotch Broom, X, 2-yr. ....	.15	.12
<i>Elaeagnus angustifolia</i> , sdig., 1-yr. ....	.05	..
<i>Euonymus carrierei</i> , 4 to 8 ins., X, 1-yr. ....	.10	.08
<i>Euonymus carrierei</i> , 8 to 10 ins., XX, 2-yr. ....	.15	.12
<i>Euonymus carrierei</i> , 9 to 12 ins., XXX, 3-yr. cutback. ....	.25	.20
<i>Euonymus coloratus</i> , 4 to 8 ins., X, 1-yr. ....	.12	.08
<i>Euonymus coloratus</i> , 8 to 12 ins., XX, 2-yr. ....	.18	.16
<i>Euonymus fortunei erectus</i> , 4 to 8 ins., X, 1-yr. ....	.10	.08
<i>Euonymus fortunei erectus</i> , 8 to 12 ins., XX, 2-yr. ....	.18	.15
<i>Euonymus patens</i> , 4 to 8 ins., X, 1-yr. ....	.12	..
<i>Euonymus vegetus</i> , 4 to 8 ins., X, 1-yr. ....	.12	..
<i>Ilex crenata</i> , 3 to 5 ins., X, 1-yr. ....	.12	.11
<i>Ilex crenata</i> , 4 to 8 ins., XX, 2-yr. ....	.17	..
<i>Ilex crenata bullata</i> , Convex Leaf Holly, 4 to 6 ins., X, 1-yr. ....	.18	.16
<i>Ilex crenata bullata</i> , Convex Leaf Holly, 6 to 8 ins., XX, 2-yr. ....	.25	..
<i>Ilex crenata bullata</i> , Convex Leaf Holly, 8 to 12 ins., XXX, 3-yr. ....	.45	..
<i>Ilex rotundifolia</i> , 3 to 5 ins., X, 1-yr. ....	.13	.12
<i>Ilex rotundifolia</i> , 4 to 6 ins., XX, 2-yr. ....	.18	.16
<i>Ilex rotundifolia</i> , 6 to 8 ins., XX, 2-yr. ....	.24	..
<i>Ilex rotundifolia</i> , 8 to 12 ins., XXX, 3-yr. ....	.60	..
<i>Juniper</i> , <i>Andorra</i> , 6 to 9 ins., X, 1-yr. ....	.17	.15
<i>Juniper</i> , <i>Andorra</i> , 6 to 9 ins., XX, 2-yr. ....	.24	.22
<i>Juniper</i> , <i>Irish</i> , 6 to 8 ins., X, 1-yr. ....	.17	.15
<i>Juniper</i> , <i>Irish</i> , 8 to 12 ins., XX, 2-yr. ....	.24	.22
<i>Juniperus chinensis pfitzeriana</i> , xxx, 3-yr. field. ....	.60	..
<i>Juniperus communis depressa plumosa aurea</i> , 4 to 6 ins., X, 1-yr. ....	.15	..
<i>Juniperus glauca hetzi</i> , 6 to 8 ins., X, 1-yr. ....	.17	.15
<i>Juniperus glauca hetzi</i> , 8 to 10 ins., X, 1-yr. ....	.22	.20
<i>Juniperus glauca hetzi</i> , 8 to 12 ins., XX, 2-yr. ....	.25	..
<i>Juniperus glauca hetzi</i> , 12 to 15 ins., XX, 2-yr. ....	.35	..
<i>Juniperus horizontalis glauca</i> , 6 to 8 ins., X, 1-yr. ....	.15	..
<i>Juniperus horizontalis glauca</i> , 8 to 12 ins., XX, 2-yr. ....	.20	.18
<i>Juniperus pfitzeriana Hill's Golden</i> , 5 to 8 ins., X, 1-yr. ....	.30	.30
<i>Juniperus virginiana</i> , 8 to 12 ins., sdig., 2-yr. ....	.67	.66
<i>Koeleruteria paniculata</i> , Golden Rain tree, 4 to 8 ins., sdig., 1-yr. ....	.10	..
<i>Larix europaea</i> , 6 to 12 ins., X, 2-yr. ....	.10	.08
<i>Leucothoe catesbaei</i> , 4 to 6 ins., X, 3-yr. ....	.20	.18
<i>Picea excelsa</i> , 4 to 8 ins., X, 2-yr. ....	.12	..
<i>Pieris floribunda</i> , 6 to 10 ins., XX, 3-yr. ....	.35	..
<i>Pieris floribunda</i> , 10 to 15 ins., XX, 3-yr. ....	.50	..
<i>Pieris japonica</i> , Japanese Pieris, 4 to 6 ins., R.C. ....	.20	..
<i>Pieris japonica</i> , Japanese Pieris, 6 to 8 ins., XX, 3-yr. ....	.45	..
<i>Pieris japonica</i> , Japanese Pieris, 8 to 12 ins., XXX, 3-yr. ....	.65	..
<i>Pieris japonica</i> , Japanese Pieris, 12 to 15 ins., XXX, 3-yr.	1.00	..
<i>Pieris mariana</i> , 8 to 10 ins., XX, 2-yr. ....	.65	..
<i>Pieris mariana</i> , 10 to 15 ins., XX, 2-yr. ....	.90	..
<i>Pinus montana mugo</i> , 2 to 5 ins., sdig., 2-yr. ....	.05	.04
<i>Pyracantha lalandi</i> , 3 to 6 ins., R.C. ....	.10	..
<i>Quercus palustris</i> , Pin Oak, 6 to 12 ins., sdig., 1-yr. ....	.13	.10
<i>Rhododendron hybrid</i> , 9 to 12 ins., XXX, 4-yr. ....	.85	.70
<i>Rhododendron hybrid</i> , 12 to 15 ins., XXX, 4-yr. (B&B add 25c).	1.50	..
<i>Taxus browni</i> , 3 to 6 ins., X, 1-yr. ....	.14	.12
<i>Taxus browni</i> , 6 to 8 ins., X, 1-yr. ....	.18	.16
<i>Taxus capitata</i> , 6 to 8 ins., X, 1-yr. ....	.18	.17
<i>Taxus capitata</i> , 6 to 8 ins., XX, 2-yr. ....	.25	..
<i>Taxus capitata</i> , 8 to 12 ins., XX, 2-yr. ....	.35	..
<i>Taxus cuspidata</i> , 3 to 6 ins., X, 1-yr. ....	.12	.11
<i>Taxus cuspidata</i> , 6 to 9 ins., X, 1-yr. ....	.15	.12
<i>Taxus cuspidata</i> , 6 to 9 ins., XX, 2-yr. ....	.20	.18
<i>Taxus cuspidata</i> , 8 to 10 ins., XX, 2-yr. ....	.28	..
<i>Taxus cuspidata</i> , 10 to 15 ins., XX, 3-yr. ....	.35	..
<i>Taxus media hatfieldi</i> , 3 to 6 ins., X, 1-yr. ....	.14	.12
<i>Taxus media hicksii</i> , 3 to 6 ins., X, 1-yr. ....	.14	.12
<i>Thuja occidentalis</i> , 4 to 8 ins., sdig., 2-yr. ....	.08	.06
<i>Thuja occ. eliwangeriana</i> , 6 to 9 ins., XX, 2-yr. ....	.15	..
<i>Thuja occ. elegantissima Geo. Peabody</i> , 4 to 6 ins., X, 1-yr. ....	.14	.12
<i>Thuja occ. elegantissima Geo. Peabody</i> , 6 to 9 ins., X, 1-yr. ....	.18	.16
<i>Thuja occ. globosa</i> , 4 to 6 ins., X, 1-yr. ....	.12	.11
<i>Thuja occ. globosa</i> , 6 to 8 ins., XX, 2-yr. ....	.18	.16
<i>Thuja occ. globosa nana</i> , 2 to 5 ins., X, 1-yr. ....	.15	.13
<i>Thuja occ. Hill's Golden</i> , 4 to 6 ins., X, 1-yr. ....	.18	.16
<i>Thuja occ. plicata</i> , 6 to 9 ins., XX, 2-yr. ....	.18	..
<i>Thuja occ. pyramidalis</i> , 4 to 6 ins., X, 1-yr. ....	.15	.13
<i>Thuja occ. pyramidalis</i> , 6 to 8 ins., X, 1-yr. ....	.20	.18
<i>Thuja orientalis</i> , Oriental Arborvitae, 4 to 8 ins., sdig., 1-yr. ....	.05	.03
<i>Thuja orientalis</i> , Oriental Arborvitae, 6 to 9 ins., sdig., 2-yr. ....	.08	.06
<i>Tsuga canadensis</i> , 12 to 15 ins., XXX, 5-yr. (B&B add 20c).65	..

PALLACK BROS. NURSERIES, Inc.

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HARMONY, PA.

along with the following nurserymen: Paul Hofman, Towson Nursery, Inc., Towson; Ernest Bartle, Hagerstown Nurseries, Hagerstown; Patsy Donofrio, Carroll Gardens, Westminster, and Edward Stock, Jr., Stock Bros., Inc., Bethesda. After a consideration of many plant materials, it was agreed that regardless of the nurserymen's opinion, the public's demand would generally determine what plants they should grow. Therefore, the nurserymen's work is to encourage the public to buy better plants and to develop, whenever possible, more disease-resistant and insect-resistant and more tolerant and healthier varieties of plant materials.

Slides showing the wide range of plants found in North Carolina because of its great climatic variations were presented by Dr. Donovan S. Correll, division of plant exploration and introduction, United States Department of Agriculture.

An exhibit of research laboratory equipment and the latest books, pamphlets and bulletins of interest to nurserymen attracted considerable attention.

A. A. N. PICTURE WANTED.

Henry B. Chase has assembled a notable collection of group photographs taken at conventions of the American Association of Nurserymen, but he regrets that it does not include the group picture taken at the convention of 1927 at Cleveland.

Inasmuch as the firm that took the photograph is out of business and the negative has been destroyed, he would like to hear from any member who perhaps has an extra copy. Anyone who wishes to help him complete his collection should address H. B. Chase, president, Chase Nursery Co., Chase, Ala.

GARDEN FOR THE BLIND.

A garden for the blind has been laid out at the John J. Tyler Arboretum, Lima, Pa., by setting the plants in narrow beds on a system of terraces, so that all of the plants may be felt and smelled. Hand guides and Braille labels are provided, so that a blind person may explore the garden alone. This is believed to be an advance upon the garden of similar character at Exeter, England. Herbs, fragrant flowers and plants of unusual leaf texture are important components. A section of vegetables is planned.

This unusual garden was designed by Charles Whittaker, superintendent, and John Wister, director of the arboretum.

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Place your order now for shipment when wanted. All stock listed here can be shipped promptly upon receipt of order. Liberally graded, true-to-name, best quality stock—offered at attractive prices.

CANNAS

Carefully grown under our personal supervision, they are true-to-name, liberally graded, 2 to 5-eye, strong divisions and will please the most exacting type of customer. Our Cannas are available for delivery when wanted during the Winter and Spring months.

	Per 100	Per 1000
Allemania, Ambassador, Charles Henderson, City of Portland, Egandale, Firebird, Florence Vaughan, Golden Gate, Hungaria, Kate Grey, King Midas, Madam Crozy, Richard Wallace, Shenandoah, Venus Pink, Wintzer's Colossal, Wyoming.....	\$6.00	\$50.00
King Humbert, President, Copper Giant, Louis Cayeux, Yellow King Humbert.....	7.00	60.00

PEACH TREES

1-year Buds	Each	Per 10	Per 100	Per 1000
1-in. and up, heavily br.....	\$1.05	\$9.00		
7/8 to 1-in., 6 to 7 ft.....	.90	7.50	\$65.00	\$600.00
11/16 to 7/8-in., 5 to 6 ft.....	.75	6.00	50.00	450.00
9/16 to 11/16-in., 4 to 5 ft.....	.65	5.00	40.00	350.00
7/16 to 9/16-in., 3 to 4 ft.....	.55	4.00	30.00	250.00
5/16 to 7/16-in., 2 to 3 ft.....	.45	3.00	20.00	150.00
1/4 to 5/16-in., 2 to 3 ft.....	.40	2.50	15.00	125.00

Belle of Georgia, Brackett, Carman, Crawford's Early, Crawford's Late, Early Rose, Elberta, Gage Elberta, Goldeneast, Golden Jubilee, Greensboro, Halehaven, Heath Cling, Hilley, J. H. Hale, Krummell's Late, O'Boy, Redhaven, Rochester, Shipper's Late Red, Summercrest, Triogem, Valiant, Vedette, White Hale.

APPLE TREES

2-year Buds	Each	Per 10	Per 100	Per 1000
1-in. and up, heavily br.....	\$1.05	\$9.00	\$80.00	\$750.00
7/8 to 1-in., 6 to 7 ft.....	.90	7.50	65.00	600.00
11/16 to 7/8-in., 5 to 6 ft.....	.65	5.00	40.00	350.00
9/16 to 11/16-in., 4 to 5 ft.....	.60	4.50	35.00	300.00
7/16 to 9/16-in., 3 to 4 ft.....	.45	3.50	25.00	200.00
5/16 to 7/16-in., 2 to 3 ft.....	.40	3.00	20.00	150.00

Baldwin, Double Red Delicious, Red Gravenstein, Grimes Golden, Hyslop Crab, Double Red Jonathan, Lodi, McIntosh, Double Red McIntosh, Red Spy, Red Rome, R. I. Greening, Solid Red Delicious, Double Red Stayman, Williams Early Red, Yellow Delicious, Yellow Transparent, York Imperial.

PEAR TREES

2-year Buds	Each	Per 10	Per 100	Per 1000
11/16-in. and up, 5 to 6 ft.....	\$0.90	\$7.50	\$65.00	\$600.00
9/16 to 11/16-in., 4 to 5 ft.....	.75	6.00	50.00	450.00
7/16 to 9/16-in., 3 to 4 ft.....	.60	4.50	35.00	300.00

Bartlett, Clapp Favorite, Duchess, Kieffer, Seckel.

SOUR CHERRY

	Each	Per 10	Per 100	Per 1000
11/16-in. cal. and up.....	\$1.10	\$9.50	\$85.00	\$750.00
9/16 to 11/16-in. cal.....	1.00	8.50	75.00	650.00
7/16 to 9/16-in. cal.....	.90	7.50	65.00	550.00
5/16 to 7/16-in. cal.....	.80	6.50	55.00	450.00

Montmorency, May Duke, Early Richmond, English Morello.

SWEET CHERRY

	Each	Per 10	Per 100	Per 1000
11/16-in. cal. and up.....	\$1.25	\$11.00	\$100.00	\$900.00
9/16 to 11/16-in., 4 to 5 ft.....	1.15	10.00	90.00	800.00
7/16 to 9/16-in., 3 to 4 ft.....	1.00	8.50	75.00	650.00
5/16 to 7/16-in., 2 to 3 ft.....	.85	7.00	60.00	500.00

Black Tartarian, Governor Wood, Lambert, Napoleon, Schmidt's Bigarreau, Yellow Spanish.

ASPARAGUS ROOTS

Our Asparagus Roots have made a very good growth this season. We are the largest growers of Asparagus in the country. Write for special prices on large numbers.

MARY WASHINGTON, PARADISE

	Per 25	Per 100	Per 250	Per 1000
3-yr., No. 1 grade, heavy.....	\$1.10	\$4.00	\$8.50	\$30.00
2-yr., No. 1 grade.....	.85	2.75	5.25	18.00
1-yr., No. 1 grade.....	.65	2.25	4.00	12.00

RHUBARB ROOTS

VICTORIA, MYATT'S LINNAEUS.

	Per 25	Per 100	Per 250	Per 1000
2-in. and up, forcing grade.....	\$2.75	\$9.50	\$22.50	\$85.00
1 1/2 to 2-in. cal.....	2.00	6.50	15.00	55.00
1 to 1 1/2-in. cal.....	1.50	4.50	10.00	35.00
3/8 to 1-in. cal.....	1.25	3.50	7.50	25.00
1/2 to 3/8-in. cal.....	1.00	2.50	5.00	16.00

BERRY PLANTS

No. 1 grade	Per 10	Per 25	Per 100	Per 1000
Thorny Boysenberry.....	\$1.00	\$2.00	\$6.00	\$40.00
Thornless Boysenberry.....	1.00	2.00	7.00	50.00
Lucretia Dewberry.....	.60	1.25	4.00	30.00
Cumberland Raspberry.....	1.00	2.00	6.00	45.00
Indian Summer Raspberry.....	1.00	2.00	7.00	60.00
Latham Raspberry.....	1.00	2.00	6.00	50.00
St. Regis Raspberry.....	1.00	2.00	6.00	50.00
Sunrise Raspberry.....	1.00	2.00	7.00	60.00
Blowers Blackberry.....	1.00	2.00	6.00	45.00
Eldorado Blackberry.....	1.00	2.00	6.00	45.00

GRAPEVINES

Our grapes have heavy, fibrous root systems, with many lengthy canes at the top. Write for prices on large numbers.

CONCORD (blue):	Each	Per 10	Per 100	Per 1000
2-yr., No. 1 grade.....	\$0.25	\$1.75	\$11.00	\$80.00
1-yr., No. 1 grade.....	.20	1.50	8.00	50.00
FREDONIA (black),				
NIAGARA (white):				
2-yr., No. 1 grade.....	.25	1.75	12.00	100.00
1-yr., No. 1 grade.....	.20	1.50	9.00	70.00
AGAWAM (red), BRIGHTON (red), CACO (red),				
CATAWBA (mahogany), MOORE'S				
DIAMOND (white), MOORE'S				
EARLY (black), WORDEN (black):				
2-yr., No. 1 grade.....	.30	2.00	15.00	120.00
1-yr., No. 1 grade.....	.25	1.75	12.00	90.00
DELAWARE (red), PORTLAND (white):				
2-yr., No. 1 grade.....	.30	2.25	18.00	150.00
1-yr., No. 1 grade.....	.25	2.00	15.00	120.00

PLUM TREES

	Each	Per 10	Per 100	Per 1000
11/16 to 7/8-in., 5 to 6 ft.....	\$0.90	\$7.50	\$65.00	\$600.00
9/16 to 11/16-in., 4 to 5 ft.....	.75	6.00	50.00	450.00
7/16 to 9/16-in., 3 to 4 ft.....	.60	4.50	35.00	300.00

Abundance, Burbank, Fellenberg, Stanley, Shropshire Damson, Red June.

FREE PACKING FOR CASH WITH ORDER. Our regular Wholesale List offers a complete line of nursery stock. If you did not receive your copy, write us today. When requesting wholesale rates, kindly use your printed stationery. If interested in large lots, please submit a list of your anticipated requirements for special consideration.

Plant Notes Here and There

By C. W. Wood

I have been watching during the past ten years or more an experienced horticulturist make a garden in the shade and have seen many things done which I always thought were among the impossible. I have long observed, for instance, that *Aconitum napellus* does better in some shade than it does in full sun, but never have seen it used in quite full shade. Here it has been in shade in heavy soil for at least twelve years, never moved or divided, and the plants have been increasing in size of clumps and beauty from year to year. It should be mentioned in passing, though, that they have been liberally fed.

Alchemilla.

If one looks for showiness in all members of the rose family, he will be disappointed when he comes to alchemilla, a genus of thirty or more species, many of them from Central and South America and Africa. But he will not be disappointed if he is in search of beautiful foliage, and he will also find a few of ironclad hardness. And of the latter, there are some with especially good decorative foliage.

For instance, there is the alpine lady's-mantle, *A. alpina*, whose 5-parted to 7-parted, and in rare cases, 9-parted leaves, padded with silver underneath, make it a joy to the lover of beautiful foliage. Its reputation in some quarters of being weedy, indicated by one gardener who wrote, "spreading mats so freely spread, and the insignificant flowers so freely seed, that the garden is likely to be happier in the end without" the plant, need not deter anyone here in the midwest. According to experience here in northern Michigan, it never spread or seeded beyond normal bounds, and, if it did, I should still love its beautiful leafage.

The Caucasian *A. sericea* is similar in some respects, but its leaves are larger and are white down beneath. The ordinary lady's-mantle of the northern hemisphere, *A. vulgaris*, has little to recommend it as a garden plant, but sometime I should like to give some of the notes that I have collected from the literature on its real and fancied virtues in the domestic economy of the ancients. Excepting two or three annuals of no garden value, the foregoing concludes my experience with the lady's-mantles, but I cannot close without quot-

ing a short paragraph from Bowles' "My Garden in Summer" regarding another species that I do not know.

Bowles describes a short rest in a garden shelter during a brief shower and writes: "How fresh things look even after so short a shower! The raindrops add a wonderful beauty, for instance, to a fine lady's-mantle that grows close by and is happy even in the chinks of the steps at the end of the vine pergola; I received it from Cambridge Botanic Garden as *Alchemilla grandiflora*, but it is the leaves, not the flowers, that are its notable feature. They are four inches across when vigorous, of a tender shade of grayish-green, and covered with fine, silky hairs, which help their cuplike shape to hold raindrops which glitter like drops of quicksilver."

Polemonium Confertum.

During an investigation of polemoniums which I have been conducting during recent years as time permitted, I have had some interesting letters from an English student of the genus. A recent one on *P. confertum* is quoted by permission:

GROUND COVER PLANTS

	Per 100	Per 1000
<i>Pachysandra Terminalis</i>		
Asst., field-grown...	\$ 6.00	\$ 50.00
2 1/4-in., pot-grown...	9.50	75.00
<i>Vinca Minor</i>		
2 1/4-in., pot-grown ..	10.00	90.00
<i>Hedera Helix</i>		
2 1/4-in., pot-grown ..	10.00	85.00
<i>Lonicera Japonica Halliana</i>		
2-yr., field-grown...	10.00	85.00
2 1/4-in., pot-grown ..	10.00	85.00
<i>Euonymus Radicans</i>		
2-yr., field-grown ...	22.50	200.00
<i>Euonymus Radicans Coloratus</i>		
2-yr., field-grown ...	18.00	160.00
<i>Ajuga Reptans</i>		
Field-grown	15.00

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NARBERTH, PA.

"SPECIALS"

FROM OUR NEW LIST

PIERIS JAPONICA

Strong, 2 and 3-yr. liners, frame-grown.

	Per 100
6 to 8 ins., peat ball.....	\$25.00
8 to 10 ins., peat ball.....	30.00
10 to 12 ins., peat ball.....	45.00

KOSTER NURSERY

BRIDGETON, N. J.

"Speaking for conditions here in the Midlands," he writes, "this polemonium is a true perennial, forming a deciduous mat of small, much-divided leaves, each tuft sending up slender stems to a height of eight or ten inches which burst into an explosion of clear blue bells. The blooming season covers much of June. It has never spread, as some of the polemoniums do.

"We also grow a form of it which has been identified as variety *melitum*. It is quite similar to the type, except its stems are taller and its flower color is milk-white. Of course, the two go well together, especially if the taller *melitum* is planted back of the type. Both grow readily from seeds, blooming well the third year and increasing in effectiveness as the years pass.

"I suspect you find it more diffi-

NORTHERN-GROWN LINING-OUT STOCK

<i>Betula papyrifera</i>	Per 100	Per 1000
1 to 2 ft.....	\$ 6.00	\$50.00
2 to 3 ft.....	8.00	70.00
3 to 4 ft.....	25.00	.....
4 to 6 ft.....	40.00	.....
<i>Clethra alnifolia</i>		
6 to 18 ins.....	6.00	50.00
18 to 24 ins.....	8.00	70.00
<i>Ilex verticillata</i>		
1 to 2 ft.....	6.00	50.00
<i>Syringa vulgaris</i>		
1 to 2 ft.....	6.00	50.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.....	6.00	50.00
<i>Viburnum dentatum</i>		
6 to 12 ins.....	5.00	40.00
1 to 2 ft.....	6.00	50.00

EVERGREENS

<i>Abies balsamea</i>		
4 to 8 ins.....	4.00	25.00
8 to 12 ins.....	8.00	60.00
<i>Thuja occidentalis</i>		
6 to 9 ins.....	4.00	25.00
6 to 12 ins.....	5.00	40.00
<i>Tsuga canadensis</i>		
4 to 8 ins.....	4.00	25.00
8 to 12 ins.....	5.00	40.00

The above stock is first-quality collected lining-out stock. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

P. O. Box 352
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EXTRA-HEAVY SPECIMEN EVERGREENS

	Each per 100
<i>Taxus browni</i> , 15 to 18 ins.....	\$2.75
<i>Taxus browni</i> , 18 to 24 ins.....	3.75
<i>Taxus hicksi</i> , 18 to 24 ins.....	3.00
<i>Taxus hicksi</i> , 24 to 30 ins.....	4.00

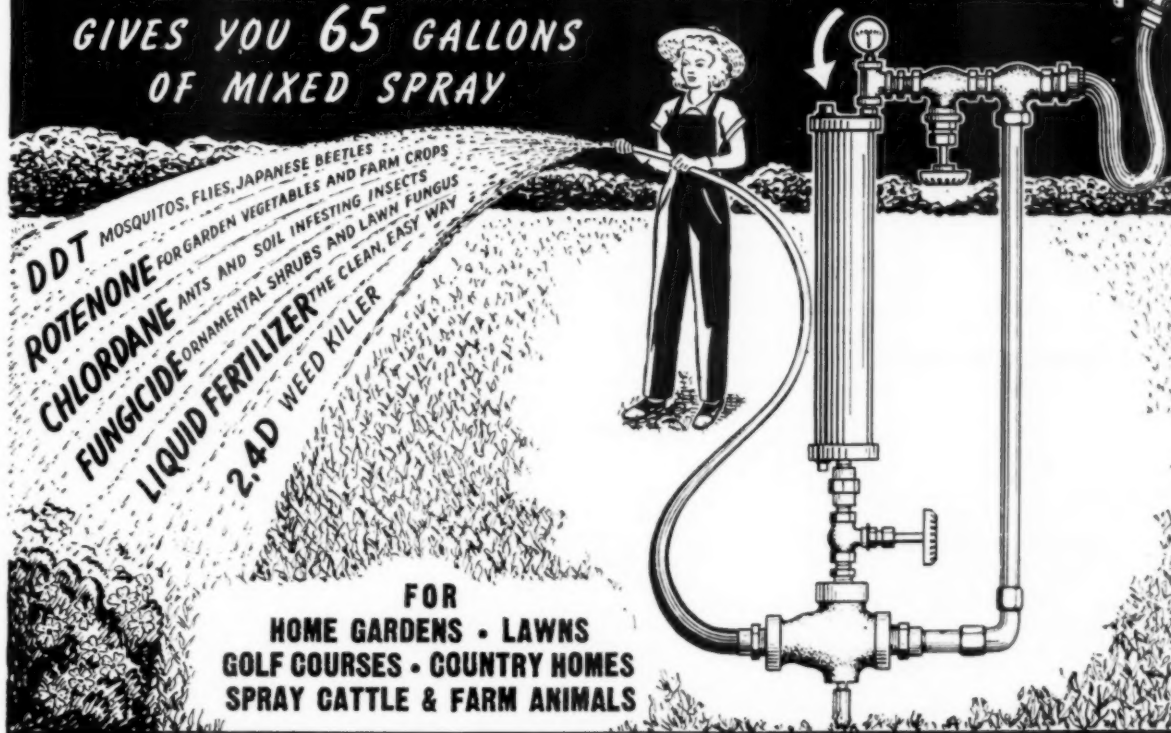
We are proud to grow evergreens you can sell with pride. Cash, please.

THORNTON NURSERIES

CONNEAUT LAKE, PA.

HOZZER CIDE SPRAYS

1 QT. CONCENTRATED HOZZER CIDE IN CYLINDER
GIVES YOU 65 GALLONS
OF MIXED SPRAY



BUGHOZZER

OPERATES ON REGULAR HOUSE WATER PRESSURE

An applicator for insecticides, fungicides, weed killers and liquid fertilizers. Operates from water pressure from ordinary hose connection.

Offers easiest way in the world to apply crab-grass killer.

Operating time is from 14 to 36 minutes, depending upon the amount of pressure used.

One quart of concentrate "HOZZER CIDE" sufficient to spray up to a half acre.

Complete instructions given on labels of spray material holders.

Apparatus weighs only eleven pounds, and may be installed in approximately two minutes. Simply drive stake into ground near water outlet, place the BUGHOZZER on stake, connect its hose to spigot and fasten garden hose to bottom. When cylinder is filled with toxicant, the concentrate is mixed properly with flowing water.

Many, many BUGHOZZER and HOZZER CIDE users and dealers are nurserymen.

ACCURATE TOOL CO.

(Insecticide Section)

15 Manufacturers Place

Newark 5, N. J.

DEALER AND SALES REPRESENTATIVES WRITE FOR INFORMATION

Better Than Usual

PINK-FLOWERING ALMOND

Own-root
18 to 24 inches
\$4.50 per 10
\$40.00 per 100
\$350.00 per 1000

PHILADELPHUS VIRGINALIS

18 to 24 inches.
\$5.50 per 10
\$50.00 per 100
\$400.00 per 1000

BUTTERFLY BUSH

	Per 10	Per 100
Charming, No. 1	\$2.90	\$25.00
Charming, medium	2.40	20.00
Dubonnet, No. 1	2.90	25.00
Dubonnet, medium	2.40	20.00
Red, No. 1	4.00	35.00

WEIGELA EVA RATHKE

18 to 24 inches.
\$4.50 per 10
\$40.00 per 100

FLOWERING QUINCE

Cutting-grown. True red color.

	Per 10	Per 100
2 to 3 feet	\$4.00	\$35.00
18 to 24 inches	2.90	25.00

HYDRANGEA PEEGEE

Meehan strain, enormous flowers.
2 to 3 feet.
\$5.50 per 10
\$50.00 per 100
\$450.00 per 1000

HYDRANGEA NIKKO BLUE

2-year, 4 canes or more.
\$7.50 per 10
\$70.00 per 100

DOUBLE-FLOWERING CHERRY

Sieboldi, pink

	Per 10	Per 100
3 to 4 feet	\$11.00	\$100.00
2 to 3 feet	8.50	75.00

GLOBE LOCUST

Splendid formal tree.
6-foot stems.
\$20.00 per 10
\$175.00 per 100

AUSTRIAN COPPER ROSE

Introduced in 1596, one of the oldest roses in cultivation. The colors have never been improved upon. Actually one of the most amazing roses you have ever seen. The single flowers are intense coppery-red on one side and bright golden-yellow on the other. Hardy, vigorous when well established. Early bloomer.

Prices

	Per 10	Per 100
No. 1	\$6.00	\$55.00
No. 1½	5.00	45.00
No. 2	3.50	30.00

PEONIES

3 to 5-eye divisions.

	Per 10	Per 100	Per 1000
Edulis Superba (7.6). Bright old rose-pink. Very early, double	\$3.50	\$30.00	\$250.00
Floral Treasure (7.5). Clear pink. Midseason to late, large	3.00	25.00	200.00
L'Esperance. Bright pink, medium. Early midseason	3.00	25.00	200.00
Unnamed double pink	2.70	22.00	175.00

VINES

	Per 10	Per 100
American Bittersweet, No. 1	\$2.50	\$22.00
Scarlet Trumpet Honeysuckle, No. 1	2.90	25.00
Silver-lace Vine, No. 1	3.50	30.00

THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"
OTTAWA, KANSAS

cult in your dry, hot climate than we do here, where it does well in full sun if it is in moist soil or in part shade if the situation is dry. Our soil is peaty, as I have told you before, and we only add grit to it for these polemoniums, because we have found that they do not like water on their crowns in winter. In fact, we always give them a collar of stone chips at the approach of winter to insure their comfort. Both come readily from seeds."

May I add that the plant known in gardens as *P. confertum* is quite happy, though, not always long-lived, in northern Michigan in a humus-filled soil in about half shade? And it is one of the joys of the race so far as flower production and color are concerned. I hope sometime to write a full story on polemoniums, with special emphasis on their garden value and uses. I should use Dr. Edgar Wherry's enumeration of the name as a basis, for, as you probably know, their nomenclature is badly confused.

Hostas.

Because I am one of the peculiar people who derive as much pleasure out of plant literature as out of the plants themselves, I always have a lot of half-baked ideas running around in an otherwise empty cranium. Once in a while one of the undone kinds pops out, and I either have to write it down then or try to return it for further baking. Other writers must have had the same difficulty, for I find the following in one of Mrs. Earle's Pot-Poutti books, of which they were four or five: "All the funkias are worth growing, but all may be left out of the small garden except *Funkia sieboldi* (sic). That, anyhow, must be grown out of doors, as it is a beautiful plant, gives no trouble, flowers every year and lasts well in water." She must have meant *Hosta fortunei*, of course, because true *H. sieboldiana* has flower scapes which do not rise above the foliage and is, therefore, inferior to *H. fortunei* as a garden plant and for cutting. I have, in fact, long paid special attention to hostas when visiting nurseries and almost invariably find *H. sieboldiana* labels covering *H. fortunei*. That does not detract from the value of the plant, for in its lovely bluish leaves and pale blue bells, on foot-high or taller scapes, we have one of summer's finest offerings.

It, as well as others of the genus, is a plant that repays bountifully for generous treatment. Unless the soil is rich and deep, one need not expect

[Continued on page 42.]

KRIEGER'S WHOLESALE NURSERY

BRIDGMAN, MICHIGAN Telephone 22

SMALL FRUITS

These prices cancel all previous lists and are subject to change without notice. 250 or over at 1000 rate. Boxing at cost. All prices F.O.B. Bridgman. Usual terms.

PACKAGED STRAWBERRY PLANTS

We have developed a new package for over-the-counter trade. Plants are individually set in moss and rolled into a neat package that will stand up for 7 to 10 days under the most adverse conditions. Will stand up well for 2 to 3 weeks under normal sales-lot conditions. Can be watered if necessary.

Packaged with brightly colored labels with full planting instructions on back of label.

Ask for a sample package.

Prices per Package of 20 Plants

	Per package
Dunlap	\$0.40
Premier	.50
Robinson	.50
Gem (Everbearing)	.50
Brunes Marvel (Everbearing)	.50
Superfection (Everbearing)	.60
Streamliner (Everbearing)	.60

Shipped in special cartons containing 35 to 50 packages, depending on variety. Shipping weight about 1 1/4 pounds per package.

STRAWBERRY PLANTS

Fresh-dug Strawberry plants, tied 25 to the bunch.

	Per 100	Per 1000
Premier	\$1.60	\$11.00
Robinson	1.50	10.00
Dunlap	1.30	8.00
Temple	1.70	12.00
Fairland	1.70	12.00
Brunes Marvel (Everbearing)	1.70	12.00
Superfection (Everbearing)	3.00	25.00
Streamliner (Everbearing)	2.20	18.00
Gem (Everbearing)	1.90	14.00

250 at 1000 rate

Write for special quotations on quantity lots.

GRAPES

	Per 100	Per 1000
Concord, 2-l	\$10.00	\$ 80.00
Concord, 1-l	8.00	60.00
Niagara, 2-l	11.00	90.00
Niagara, 1-l	9.00	70.00
Catawba, 2-l	11.00	90.00
Catawba, 1-l	9.00	70.00
Fredonia, 2-l	11.00	90.00
Fredonia, 1-l	9.00	70.00
Delaware, 2-l	14.00	120.00
Delaware, 1-l	11.00	90.00
Van Buren, 2-l	25.00	200.00
Van Buren, 1-l	15.00	125.00
Caco, 1-l	10.00	...
Sheridan, 2-l	16.00	...
Sheridan, 1-l	12.00	...
Golden Muscat, 2-l	25.00	...
Golden Muscat, 1-l	15.00	...
Seneca, 2-l	35.00	...
Seneca, 1-l	25.00	...

250 at 1000 rate

BLACKBERRIES

	Per 100	Per 1000
Eldorado, transplants	\$6.50	...
No. 1, root cuttings	5.00	...
1-yr., med., root cuttings	3.50	\$25.00
Alfred, transplants	6.50	...
No. 1, root cuttings	5.00	...
1-yr., med., root cuttings	3.50	25.00
Early Harvest, transplants	7.00	...
No. 1, root cuttings	5.00	...

CURRENTS

	Per 100	Per 1000
Wilder, 3-yr., heavy	\$15.00	\$130.00
Wilder, 2-yr., No. 1	12.00	100.00
Wilder, 1-yr., No. 1	7.00	60.00
Red Lake, 2-yr., No. 1	16.00	...
Red Lake, 1-yr., No. 1	12.00	...

GOOSEBERRIES

	Per 100	Per 1000
Downing, 2-yr., No. 1	\$25.00	...
Houghton, 2-yr., No. 1	25.00	...
Champion, 2-yr., No. 1	25.00	...

RED RASPBERRIES

	Per 100	Per 1000
Latham, transplants	\$7.50	\$62.50
Latham, 1-yr., No. 1	6.00	47.50
Chief, transplants	7.00	60.00
Chief, 1-yr., No. 1	5.50	45.00
Sunrise, transplants	7.00	60.00
Sunrise, 1-yr., No. 1	5.50	45.00
Indian Summer, transplants	8.00	70.00
Indian Summer, 1-yr., No. 1	6.50	55.00
St. Regis, transplants	7.00	60.00
St. Regis, 1-yr., No. 1	5.50	45.00

PURPLE RASPBERRIES

	Per 100	Per 1000
Sodus, No. 1, tips	\$5.50	\$45.00

BLACK RASPBERRIES

	Per 100	Per 1000
Cumberland, transplants, No. 1	\$8.00	\$70.00
transplants, No. 2	6.50	55.00
tips, No. 1	4.50	35.00
Logan, transplants, No. 1	8.00	70.00
transplants, No. 2	6.50	55.00
tips, No. 1	4.50	35.00
Morrison, transplants, No. 1	9.00	80.00
transplants, No. 2	7.50	65.00
tips, No. 1	5.00	40.00

BOYSENBERRIES and DEWBERRIES

	Per 100	Per 1000
Boysenberry (Common), No. 1, tips	\$5.00	\$40.00
Boysenberry (Thornless), No. 1, tips	5.50	45.00
Lucretia Dewberry, No. 1, tips	5.00	40.00

BLUEBERRIES

	Per 100	Per 1000
Rancocas (Early)		
Rubel (Midseason)		
Jersey (Late)		
2-yr., Each	10	100
9 to 12 ins.	\$0.40	\$3.50
3-yr., 12 to 18 ins.	.55	5.00
4-yr., 18 to 24 ins.	.75	7.00
5-yr., 24 to 36 ins.	1.00	9.50

ASPARAGUS

	Per 100	Per 1000
Paradise and Washington		
3-yr., heavy	\$4.00	\$30.00
2-yr., No. 1	2.30	18.00
1-yr., No. 1	1.70	12.00
1-yr., in 10,000 lots		10.00

VICTORIA RHUBARB

	Per 100	Per 1000
1 1/2-in. and up, whole roots	\$8.00	\$75.00
1 to 1 1/2-in., whole roots	5.50	50.00
3/4 to 1-in., whole roots	4.00	35.00
1/2 to 3/4-in., whole roots	3.00	25.00

RED RHUBARB

	Per 100	Per 1000
Canada Red, No. 1, divisions	\$40.00	\$350.00
MacDonald, No. 1, divisions	30.00	250.00

HORSE-RADISH

	Per 100	Per 1000
Cuttings, 4 to 5 ins.	\$2.00	...
Whole roots	4.50	...

Vermont Short Course

By M. B. Cummings

The annual short course for fruit growers was broadened this year to include nurserymen, florists and greenhouse men at the 5-day conference, February 20 to 24, at the University of Vermont, Burlington.

Lectures on principles of soil management and fertilization, plant propagation, insect and disease control, and spraying methods were followed by discussion and question periods. Round-table talks and motion pictures supplemented the lectures. The last day was entirely devoted to discussion of insects and diseases of plants and to foliage injuries. There were guest speakers from Cornell University, Ithaca, N. Y., and the University of Massachusetts, Amherst, and the Eastern States Farmers' Exchange, Springfield, Mass. Despite blustery weather the attendance was good, for nearly 100 persons were present.

Dr. Edward P. Hume, ornamental horticulturist, who had recently done some work at Cornell University and who teaches and conducts extension service at the University of Vermont, took up nursery problems and florists' practices. He said that two effects of temperature should be distinguished. Temperature has an effect on the vegetative growth of plants, for the higher the temperature the more rapidly the plants use, or burn up, their food materials. Every plant has its most favorable temperature for day and for night. A temperature of 60 or 65 degrees Fahrenheit is good for most plants, except some vegetables and a few seed plants. If one is to grow plants in the home, he should first of all know what temperature prevails, then select the plants suited to it.

Nursery and orchard problems were discussed by Dr. Damon Boynton, professor of pomology at Cornell University, who said that nitrogen fertilizers can be applied to apple trees, either in the nursery or the orchard, in the form of a water spray on the leaves. The results he has secured with this method were comparable to applications to the ground. Although he evidently had a specific brand in mind, he did not name it; but a home-mixed or dissolved nitrate is simple to make and apply. This is definitely a new idea in plant fertilization and seems applicable to numerous horticultural plants that need toning up or stimulating for better

growth. In backward seasons liquid fertilizers are highly beneficial.

A review of a fertilizer and mulch program was presented by Roger C. Smith, of the Eastern States Farmers' Exchange. He stressed the need for mulches for successful plant growth, especially in dry seasons, and their great importance in crop production. He presented figures to show the actual value of different forms of mulch.

E. K. Walrath, also of the Eastern States Farmers' Exchange, talked on soil conditions. He told the growers how fortunate they were to be farming in Vermont where annual freezing and thawing renewed the all-important physical condition of the soil. This, he said, makes possible greater root activity, and makes subsequent growth of the plant much stronger.

Plant roots can obtain some nutrients from the soil without using much energy, but for the most part, plants have to work to obtain and to utilize the food material they get. Good soil conditions help the plant to grow better and give a better product.

This was the gist of a talk by Dr. J. W. Marvin, botanist at the Vermont agricultural experiment station and professor of botany at the University of Vermont.

Plant growers should inspect their plantings every few days to see what is doing well and what is doing poorly, warned Prof. C. Lyman Callahan, of the Vermont extension service. He said to watch for insects and diseases so as to detect their presence before harm has been done. All treatments are more effective and economical if applied early.

Commercial nurserymen and florists had special sessions for the first time this year. The effects of temperature and the benefits of soil sterilization were explained. Temperature control within narrow limits for plants under glass was emphasized.

Lime is important for most plants, said Dr. A. R. Midgley, agronomist at the Vermont agricultural experiment station. It makes other nutrients in soil more available to the plant.

EVERGREENS

Northern-grown

CANADIAN HEMLOCK

AMERICAN ARBORVITAE

BALSAM FIR

	Per 100	Per 1000
2 to 4 ins., sdgls....	\$ 0.80	\$ 5.00
3 to 6 ins., sdgls....	1.50	10.00
* 6 to 9 ins., sdgls....	2.50	15.00
* 9 to 12 ins., sdgls....	6.00	40.00
* 12 to 18 ins., sdgls....	8.00	65.00
* 18 to 24 ins., sdgls....	20.00	....

*Limited quantity of Arborvitae.

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

WILLIAM CROSBY HORSFORD

Charlotte, Vermont

QUALITY LINERS

Red-flowering Dogwood	Per 100
6 to 10 ins., grafts.....	\$55.00
Canadian Hemlock	
5 to 12 ins., trans.....	15.00
Magnolia S. Nigra (red)	
8 to 15 ins. (own-root).....	75.00

Send for new Spring list.

POSSUM HOLLOW NURSERIES

6327 Magnolia St.
PHILADELPHIA, 44, PA.



NEW DARK VELVETY RED

No. 112

and other fragrant

SUB-ZERO HYBRID TEAS

Large and beautiful as any.

Easy to grow and long to live.

Save replacement expense.

Also Yellow and Orange Climbers.

Write for trade prices to

BROWNELL ROSES

LITTLE COMPTON, R. I.

TAXUS BREVIFOLIA

Finished stock. Come and see it. In lots of 25 to 100. For cash.

	Each
15 to 18 ins., B&B.....	\$3.50
18 to 24 ins., B&B.....	4.50

No shipping. Send your truck.

HUEBNER'S NURSERY

MONROE, N. Y.

Route 17

Orange County

THE POLICY PAYS

PRICE REDUCTIONS

In the September 1, 1949, issue of the American Nurseryman we published a statement of policy—a policy of reduced prices and increased production.

We were able to do this because we knew and still know exactly how much it is costing us to produce the plants we grow.

We are glad to be able to report that this policy pays, for we are at this time heavily booked for all types of material.

Quantities available for spring orders are strictly limited, but we will do everything possible to supply your needs in first-class liners of all types, particularly scarce grafted stock.

Once again we are stepping up production, and, if all goes well, we hope to have a really outstanding block in a wide variety of young material to offer this coming fall.

MAY WE ADD YOUR NAME TO OUR MAILING LIST?

Represented by: **JOHN POLHEMUS**
Washington Crossing, Pa.

JAMES S. WELLS, Manager

KOSTER NURSERY

BRIDGETON **NEW JERSEY**

and because it improves the texture of the soil, plants can make better growth.

Carnations and chrysanthemums were the plants discussed by Prof. Alfred Boicourt, University of Massachusetts, who also talked on ornamentals and furnished printed sheets of information.

A round-table discussion was sponsored by Prof. Richard Hopp, Dr. Carl Parsons and Prof. C. L. Callahan, members of the University of Vermont staff. M. B. Cummings.

PROUD parents of their first son are Mr. and Mrs. John ("Jack") B. Hill, D. Hill Nursery Co., Dundee, Ill. The baby arrived February 17 and has been named Platt Waller Hill. He has a 2-year-old sister, Felicitate Waller Hill.

PREFABRICATED buildings, designed by a west coast architect and following the western style, are being erected at 227 South Minnesota avenue, Sioux Falls, Minn., at the new branch location of the Green Thumb Nursery, Worthington, Minn., according to the branch manager, Stanley Le Brun. A similar drive-in branch of the nursery will be opened this spring at Minneapolis.



MALONEY'S Specialize in Quality Fruit Trees

Let us quote you attractive wholesale prices on your spring requirements of:

- 1 and 2-year SWEET and SOUR CHERRY**
- 1 and 2-year STANDARD APPLE**
- 1 and 2-year STANDARD PEAR**
- 1 and 2-year EUROPEAN and JAPANESE PLUM**
- 1 and 2-year APRICOT, on Plum roots**
- 1 and 2-year QUINCE**
- 1-year PEACH**

SHRUBS - ORNAMENTALS

Write for Complete Trade List.

MALONEY BROS. NURSERY CO., Inc.
DANVILLE, N. Y.

Lake County School

By Margaret Sessler, Secretary

The annual one-day school for nurserymen was held in the G. A. R. room of Lake County court house, Painesville, O., February 23, and was a big success in spite of the fact that inclement weather persisted and thus reduced attendance considerably from outside the county. However, eighty or more nurserymen registered, including some from as far as Salem, Canton, Elyria and Macedonia.

The morning session opened with a talk by Dr. L. C. Chadwick, department of horticulture, Ohio State University, whose topic was "Fertilizer, Minor Elements and Soil Deficiencies." He discussed various nitrogen fertilizers from the standpoint of unit cost of nitrogen. He stated that for the average nursery chemical nitrogen fertilizer is usually cheaper and as effective as organic nitrogen fertilizer.

The next speaker was B. C. Smith, of the department of horticulture, Ohio State University, who spoke on "Propagation of Woody Ornamentals from Seeds." His talk dealt mainly with the methods of cleaning, scarifying and stratifying seeds of ornamentals.

James S. Wells, a native of England and manager of Koster Nursery, at Bridgeton, N. J., opened the afternoon session with a talk on "Nursery Management and Cost Accounting." He exhibited a detailed cost sheet form showing just how records are kept at his firm of the time and materials that go into the production of nursery stock. He explained that a timekeeper does nothing else but assemble and interpret these facts so that the cost of any plant can be found at any stage of development. After plants have grown one year in pots, two years in pots or any point along the line the firm is able to determine the actual investment the firm already has in it. Mr. Wells also showed slides and commented on propagation standards that are being used at the Koster Nursery.

Dr. R. B. Neiswander, of the Ohio agricultural experiment station, Wooster, brought the group up to date on new chemicals for the control of insect pests. Much interest was shown in the use of Parathion which has given excellent control of many nursery insect pests. Dr. Neiswander stated that although Parathion is an excellent control, it is still dangerous

to use and recommended using it only where another chemical will not give equal control.

The panel discussion by local nurserymen scheduled as the last thing on the afternoon's program was not held because of the shortage of time.

The annual banquet and evening's entertainment was held at Lloyd Parrish's Rose room, Mentor. A group of 135, consisting of nurserymen, their wives and other guests from Lake county and surrounding territory, attended the evening affair.

The tables were attractively decorated in a patriotic George Washington theme. The favors, small blue tricorn hats filled with candy, were made by Miss Margaret Sessler, secretary of the Lake County Nurserymen's Association. Centerpieces in the form of colorful cherry trees

were designed by Miss Marie Brandstaetter, Mentor. These were accented by beautiful potted red azaleas in full bloom, furnished through the courtesy of Nick Castello, florist at Mentor. Large vases of lovely yellow forsythia blooms supplied by Charles Kohankie, Henry Kohankie & Son, Painesville, flanked the orchestra stand and lent a springlike atmosphere.

During the dinner the guests were entertained by harp music by Muriel Cairns. Group singing was led by F. G. Haskins, county agent. Robert Kallay, president of the Lake County Nurserymen's Association, who presided as chairman of the evening program, welcomed the members and their guests and thanked the speakers who had participated in making the nursery school such a great success.

Paul Schumaker called attention to the fact that no association party would be complete without the infinite planning of the secretary, Margaret Sessler, and that the members of the association wished to show

PENNSYLVANIA SEEDLINGS and TRANSPLANTS

grown at High Altitude, in the heart of the
ORIGINAL PENNSYLVANIA PINE FORESTS

	Per 100	Per 1000
American Red Pine, 2-0, 2 to 4 ins.	\$4.00	\$30.00
American Red Pine, extra-good, 3-0, 4 to 8 ins.	5.00	40.00
Scotch Pine, 2-0, 2 to 4 ins.	2.00	15.00
Scotch Pine, very good, 2-yr., 4 to 6 ins.	3.00	25.00
Scotch Pine, extra-good, 3-yr., 6 to 8 ins.	3.50	30.00
Scotch Pine, extra-good, 3-yr., 8 to 12 ins.	4.00	35.00
Larch, 2-yr., 5 to 8 ins.	2.50	20.00
Pitch Pine (Adirondack), 2-yr., 5 to 8 ins.	2.00	15.00
Mugho Pine, 2-yr., spreading.	2.50	20.00
Mugho Pine, 3-yr., spreading.	3.50	30.00

All stock offered subject to prior sale. Five per cent discount on orders of 25,000 or more seedlings, one or more species.

EXCELLENT ROOT SYSTEMS STURDY PLANTS

500 at 1000 rate. No charge for packing or boxing when cash accompanies order; otherwise, one-half cash with order, balance C.O.D.

SCHROTH'S NURSERY

Nursery: Pine Flats, Pa.

INDIANA, PA.

the **PROVED** way to kill . . .



Dowfume MC-2 makes the difference! Flat at right, treated before planting; at left, untreated.

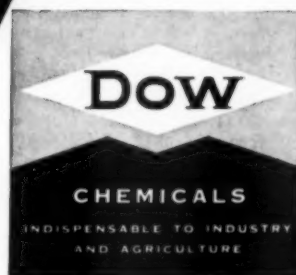
Weed Seeds and Soil Insects

fumigate planting soil

with

DOWFUME MC-2

THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN



Growers are getting excellent results from the use of Dowfume MC-2, a new Dow soil fumigant—both with seedlings grown under glass and in the field. It kills most of the weed seeds present in the soil—also controls nematodes and other root-attacking parasites. At higher dosages, it controls many plant diseases.

Dowfume MC-2 does a real job throughout the tilled layer of soil. It is easy to apply—and it aerates quickly to permit planting within 48 to 72 hours.

Your Dow dealer can supply you with Dowfume MC-2 and the simple equipment for its application. Or you may write our Fumigant Division for complete information.

their appreciation to her. Michael Sebian then brought a beautiful crown made of pink dianthus flowers and asparagus ferns and crowned Miss Sessler, "Queen of the Lake County Nurserymen's Association," and read a poem composed by Mrs. Sebian for the occasion. Charles Kohankie presented her with a beautiful train case as a gift from the association.

The guest speaker, Harry Coopland, who is a well known local humorist and philosopher, spoke on "How to Boost Your Community." He told the nurserymen to sell their organization and also their community. He mentioned several ways to boost the community, such as building a display at the entrances to the city and beautifying the railroad depot. He explained that selling is the art of influencing other people to think as you think, to believe as you believe, to act as you act. The unsold person is the untold person. He quoted a statement by Abraham Lincoln, who said, "I like a man who is proud of his community and I love a man whose community is proud of him."

Three sound films describing the use of time lapse photography in the growth of plants and flowers were shown, after which the evening was turned over to dancing.



Musser's 2-yr. Canadian Hemlock, 4 to 8 ins. Average 2-yr. Canadian Hemlock

CANADIAN HEMLOCK NURSERY-GROWN

Per 1000

2-yr. seedlings, 2 to 4 ins. \$30.00

2-yr. seedlings, 4 to 8 ins. 45.00

As shown on photo, size and grade are equal to average 3-yr. stock.

20 MILLION TREES A YEAR

Write for complete catalog.

MUSSER FORESTS, Inc. INDIANA, PENNA.

TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

THE RHODE ISLAND NURSERIES NEWPORT, R. I.

Acer palmatum atropurpureum, 3-yr. transplants, 6 to 12 ins.

Viburnum opulus, 2-yr. transplants, 6 to 12 ins.

Myrica carolinensis, 2-yr. transplants, 3 to 6 ins.

Write for samples and prices.

PROFIT-MAKERS FOR 1950

FROM

ILGENFRITZ NURSERIES

Virginia Seaside ROSES

We have most standard varieties of Hybrid Teas, as well as many patented varieties. Finest roses grown anywhere!

	Per 100
1 to 99.....	\$50.00
100 to 499.....	47.50
500 to 999.....	45.00
1000 and up.....	42.50



Finest Michigan-grown FRUIT TREES

APPLE	300 rate Each	STD. PEAR	300 rate Each
3/4-in.	\$0.45	3/4-in.	\$0.80
1 1/16-in.	.40	1 1/16-in.	.60
9/16-in.	.35	9/16-in.	.45
SWEET CHERRY, 1 1/2		SOUR CHERRY, 1 1/2	
1 1/16-in.	.90	1 1/16-in.	.75
9/16-in.	.80	9/16-in.	.65
7/16-in.	.65		
PLUM		PEACH	
3/4-in.	.80	3/4-in.	.45
1 1/16-in.	.60	1 1/16-in.	.35
9/16-in.	.45	9/16-in.	.25
		7/16-in.	.20

PYRAMID SPECIMEN THUJA

PYRAMIDS from 2 1/2 to 3 ft. up to 6 to 7 ft. Beautiful, full, straight, transplanted trees grown at Monroe. Our digging is famous. You will be sure of the best. Order at once; ten or more.

	Each per 10
2 1/2 to 3 ft.	\$2.15
3 to 4 ft.	2.75
4 to 5 ft.	3.50
5 to 6 ft.	5.00
6 to 7 ft.	7.75

THUJA WOODWARDI

Woodwardi is one of the best of all Globe Arborvitae; fine color, full, round plants. 15 to 18 ins., only \$1.40 each per 10.

TOP-QUALITY SHADE TREES

Steve O'Rourke issued a bulletin from Michigan State College recommending *Gleditzia triancanthos* and *inermis* (thornless) as very good shade trees. We have fine trees: 6 to 8 ft., only \$1.25 each; 8 to 10 ft., \$2.25 each. F.O.B. Monroe, Mich.

ILGENFRITZ NURSERIES, INC.

THE MONROE NURSERY · MONROE, MICH.

OBITUARY

C. L. Vanderbrook.

Charles L. Vanderbrook, who with his son, Louis C., founded C. L. Vanderbrook & Son, Manchester, Conn., in 1922, died March 2 at Manchester Memorial hospital after a short illness.

Born in Holland, Mr. Vanderbrook came to this country in 1882 and settled at Newark, N. Y., where he was assistant superintendent of Jackson & Perkins Co. In 1908 he resigned to become superintendent of C. R. Burr & Co., Manchester, Conn., and remained there until 1922 when he and his son founded their own nursery business. Mr. Vanderbrook devoted much of his time to developing plants and was an outstanding propagator. The firm holds membership in the state, regional and national nurserymen's associations.

Besides his son, Louis, Mr. Vanderbrook is survived by his widow, Mrs. Mary S. Vanderbrook; a daughter, Mrs. William Schrober; a grandson, Bruce, who is also associated with the nursery; four brothers; and two sisters.

Theodore F. Borst.

Theodore F. Borst, 70, owner of Little Tree Farm, Inc., Framingham Center, Mass., died February 18 after a long illness.

A native of Baltimore, Md., he attended Maryland Institute and graduated from Cornell University in 1901. He went to Framingham forty-one years ago to establish Little Tree Farms, and was one of the first nurserymen to use the cash-and-carry method of merchandising nursery stock.

For many years he had been interested in the development of a horticultural center where the home-owner could find any plant materials or supplies. About 1913 he built a big glass exhibition and sales building on the state road, midway between Boston and Worcester. At a time when the depression was having a negative effect upon most nursery businesses, Mr. Borst's exhibition room, in which the stock was plainly marked with prices and wrapped so it could be loaded on customers' cars without delay, had to be more than doubled in size because of increased business.

His survivors include his widow, Mrs. Sara Cone Bryant Borst; a son, James B., Tucson, Ariz.; a daughter, Mrs. Leslie Charteris, Hollywood,

"LOOK TO LEGHORN'S FOR YOUR LINERS" —

We still have a few liners left in the 2-yr., T, sizes and up. Write for prices on these. We also have some nice upright yews in sizes 2 to 2½ ft., 2½ to 3 ft. and 3 to 3½ ft. Send for our complete list covering both these items.

LEGHORN'S EVERGREEN NURSERIES

GEER STREET

CROMWELL, CONN.

Calif.; two brothers, Edward W., of Fayville, and George, of Quincy, and two sisters.

J. C. Nichols.

Jesse Clyde Nichols, 69, developer of the Country club district and the Plaza shopping area at Kansas City, Mo., died February 16 at his home. He was often called the father of city planning in the west.

He was born at Olathe, August 23, 1880, and graduated from the University of Kansas in 1902. After spending a scholastic year at Harvard, he started out at Kansas City in a small office at the rear end of a drug store.

The birth of the Country club district took place in 1908 with the purchase of a 10-acre tract of undesirable property which he developed into an area that became a laboratory in practical planning that leading developers the world over have followed for guidance.

In the course of this development the J. C. Nichols Investment Co. undertook landscape planting on its own properties and established a nursery for the production of plant material especially for the purpose. S. R. McLane heads this department.

Mr. Nichols' life was devoted to many projects beyond these 5,000

HEMLOCK

(*Tsuga Canadensis*)

	Per 100
18 to 24 ins., XXX, sheared, B&B.....	\$175.00
2 to 2½ ft., XXX, sheared, B&B.....	225.00
2½ to 3 ft., XXX, sheared, B&B.....	300.00
3 to 3½ ft., XXX, sheared, B&B.....	350.00

Also

RHODODENDRON — KALMIA — AZALEAS

Japanese Beetle B Certificate on All Shipments

Write for Price List.

CURTIS NURSERIES

CALLICOON, N. Y.

Hybrid Rhododendrons

Catawbiense Grandiflorum,
8 ft., bushy.

Large, bushy Hinodegiri Azaleas, 3 to 4 ft. across; lining-out stock of Hinodegiri, \$15.00 per 100.

DUDLEY NURSERY
VEREE RD. above RHAWN ST.
FOX CHASE,
PHILADELPHIA 11, PA.

LINING-OUT STOCK

Spring, 1950

Hardy Azalea Hinodegiri, Hinomaye, Nomo, Snow, Azalea Kaempferi Hybrids: Carmen, Cleopatra, Fedora, Atlanta, Mme. Butterfly, etc.

1-yr., 3 to 5 ins., 15c ea.;

4 to 6 ins., 25c ea.;

2-yr., 4 to 6 ins., 35c ea.;

6 to 8 ins., 50c ea.

Cornus florida rubra, 1-yr. grafts, 13 to 24 ins., 75c ea. Acer atropurpureum, 1-yr. grafts, 9 to 12 ins., 75c ea. Lilacs, 1-yr. grafts, many varieties, 20c ea. Ask for complete list of other varieties.

DEERFIELD NURSERIES
DEERFIELD STREET P.O., N. J.

ROSES FOR IMMEDIATE SHIPMENT

PATENTED VARIETIES HYBRID TEAS

	Each in lots of		
	10 to 19	20 to 249	250 up
Brandywine, buff-yellow	\$0.90	\$0.75	\$0.65
Countess Vandal, carmine-pink, buff and gold	.75	.65	.55
Diamond Jubilee, buff-orange	1.10	1.00	.85
Dickson's Red, glowing scarlet-red	.75	.65	.55
Eclipse, brilliant golden-yellow	.75	.65	.55
Ernie Pyle, warm rose-pink	.90	.75	.65
Eternal Youth, vibrant, clear pink	.75	.65	.55
Fantasia, medium-size, bright golden-yellow	.90	.75	.65
Greer Garson, unfading rose-pink	.90	.75	.65
Heart's Desire, bright luminous-red	.90	.75	.65
Hector Deane, carmine, shading to salmon-pink	.75	.65	.55
K. T. Marshall, warm, sparkling pink	.75	.65	.55
Mandalay, very large golden-yellow	1.10	1.00	.85
Mme. Chiang Kai-shek, delicate yellow	.90	.75	.65
Mme. Marie Curie, one of the best yellows	.90	.75	.65
New Yorker, very dark red	1.10	1.00	.85
Peace, soft yellow, edged pink	1.10	1.00	.85
Prima Donna, rich salmon with pink tones	.75	.65	.55
Rome Glory, velvety, scarlet-crimson	.75	.65	.55
Rubaiyat, flashing crimson	.90	.75	.65
Saturnia, cardinal, salmon, yellow and copper	.90	.75	.65
Sunset Glory, golden-yellow, suffused pink	.90	.75	.65

FLORIBUNDAS

Betty Prior, pink dogwood appearance	.70	.60	.50
Donald Prior, sparkling red wine	.70	.60	.50
Geranium, double, geranium-red	.90	.75	.65
Goldilocks, true golden-yellow, double	.90	.75	.65
Improved Cecile Brunner, stronger and deeper than the original Sweetheart	.70	.60	.50
Red Pinocchio, velvety, rich carmine, double	.90	.75	.65
Red Sweetheart, rich crimson-carmine	.70	.60	.50
Sleighbells, white, faintly traced with pink	1.10	1.00	.85
Summer Snow, clear white in clusters	.70	.60	.50
World's Fair, rich scarlet, deepening to maroon	.70	.60	.50

PATENTED CLIMBERS

Blaze, everblooming Paul's Scarlet	.90	.75	.65
Doublons, golden-yellow	.90	.75	.65
Golden Climber, deep golden-yellow	.90	.75	.65
Cl. Heart's Desire, bright luminous-red	.90	.75	.65
King Midas, lovely yellow-gold	.90	.75	.65
Cl. Summer Snow, pure white	.90	.75	.65
Cl. Torch, clusters of orange-scarlet	.90	.75	.65
Cl. World's Fair, rich scarlet	.90	.75	.65

STANDARD VARIETIES

Two-year, field-grown, No. 1, \$4.00 per 10; \$35.00 per 100.

RED	PINK	YELLOW
Etoile de Hollande	Betty Uprichard	Golden Charm
Poinsettia	Briarcliff	Mrs. P. S. du Pont (double)
Rouge Mallerin	Dainty Bess	Roslyn
Red Radiance	Edith Nellie Perkins	Soeur Therese
	Editor McFarland	Yellow Talisman
	Mrs. Chas. Bell	
	Pink Radiance	
WHITE	MULTICOLOR	POLYANTHA
Konigin Luise	Condese de Sestago	Golden Charm
Frau Karl Druschki	Pres. Hoover	Ideal
	Talisman	Madame Cecile Brunner
CLIMBERS		
Cl. Etoile de Hollande		
Cl. Talisman		

Packing additional at cost. No C.O.D.'s, please.

FRASER NURSERIES, Inc.

P. O. Box 465

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Wholesale Nurseries
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Splendid Stock

Write for Special Quotations

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SHEPARD NURSERIES

Growers and Distributors of

ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.

60 acres growing. Skaneateles, N. Y.

acres. From 1926 to 1948 he served on the national park and planning commission. He was among the four city planners chosen by President Coolidge in 1926 to be on the commission to supervise the improvement and beautification of the District of Columbia.

During the defense program preceding World War II he went to Washington as a dollar-a-year man to become a spokesman for the middle west and preach decentralization for strategic purposes. His efforts brought a number of firms to the midwest.

In 1940 he assumed the chairmanship of the J. C. Nichols companies. One of his sons, Miller Nichols, is sales manager of the J. C. Nichols Co., and another, Clyde Nichols, Jr., is president of Dan Truog and Clyde Nichols, Inc. He is also survived by his widow, Mrs. Jessie Eleanor Nichols; a daughter, Mrs. Eleanor Allen; a sister, and nine grandchildren, all of Kansas City.

Julius Baila.

Julius Baila, who operated the J. Baila Nursery, Aberdeen, Wash., died February 10 at a local hospital following a long illness. Born at Teranta, Italy, he went to Aberdeen directly from his native land.

Survivors are his widow, Mrs. Elide Baila; a daughter, Mrs. Earl Curtis, Aberdeen; a son, Albert, Seattle; a brother, John, Aberdeen; a sister, Mrs. Josephine Tomborin, Walnut Creek, Calif., and two sisters and two brothers in Italy.

B. T. Engledow.

B. T. Engledow, 42, owner and operator of the Engledow Tree & Landscape Service, died at his home at New Augusta, Ind., March 3. He had been in business for the past twenty-five years and was a member of the Indiana Arborists' Association. Funeral services and burial were at Zionsville March 5.

Survivors include his widow; two sons, Jack, a student at Wabash College, and Edward; his mother, two sisters, and four brothers.

NEW MAGAZINE.

The first issue of Popular Gardening, described in its subtitle as "America's New All-Garden Magazine," for March-April, under the editorship of Paul F. Frese, made its appearance early in March. Besides the covers, there are four pages in full color in this 104-page issue. Attractively laid out and generously illustrated, the issue includes a wide variety of interesting articles.

GRAFTED STOCK For Spring, 1950, Delivery

	Per 10	Per 100		Per 10	Per 100
<i>Acer palmatum atropurpureum</i>	\$7.00	\$65.00	<i>Juniperus virginiana elegantissima</i> ...	\$5.00	\$45.00
<i>Acer palmatum dissectum</i> <i>atropurpureum</i>	7.00	65.00	<i>Juniperus virginiana glauca</i>	5.00	45.00
<i>Cornus florida alba plena</i>	5.00	45.00	<i>Juniperus virginiana globosa</i>	5.00	45.00
<i>Cornus florida rubra</i>	5.00	45.00	<i>Juniperus virginiana kosteriana</i>	5.00	45.00
<i>Fagus sylvatica riversi</i>	7.00	65.00	<i>Juniperus virginiana schottii</i>	5.00	45.00
<i>Juniperus chinensis columnaris glauca</i>	5.00	45.00	<i>Juniperus virginiana pyramidaformis</i> <i>hilli</i>	5.00	45.00
<i>Juniperus chinensis columnaris viridis</i>	5.00	45.00	<i>Juniperus sabina</i> Von Ehron.....	5.00	45.00
<i>Juniperus chinensis keteleeri</i>	5.00	45.00	<i>Magnolia lennei</i>	7.00	65.00
<i>Juniperus chinensis neaboriensis</i>	5.00	45.00	<i>Magnolia soulangeana</i>	6.50	60.00
<i>Juniperus chinensis sargentii</i>	5.00	45.00	<i>Magnolia soulangeana nigra</i>	6.50	60.00
<i>Juniperus chinensis sargentii glauca</i>	5.00	45.00	<i>Magnolia stellata</i>	6.50	60.00
<i>Juniperus chinensis meyeri</i>	5.00	45.00	<i>Magnolia stellata</i> Water Lily.....	6.50	60.00
<i>Juniperus virginiana burki</i>	5.00	45.00	<i>Tsuga canadensis pendula</i>	5.50	50.00
<i>Juniperus virginiana canaerti</i>	5.00	45.00	<i>Tsuga canadensis pendula</i> , 1-yr. grafts.....	7.00	65.00

All the above shipped from 2 1/4-inch rose pots.

Prices are F.O.B. Mountain View, N. J., packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

HESS' NURSERIES

MOUNTAIN VIEW, N. J.

TO "PLANT MICHIGAN."

To promote the "Plant America" program of the American Association of Nurserymen, the Michigan Association of Nurserymen voted at its annual meeting last month to spread recognition of this program of beautification and conservation throughout the state of Michigan. The "Plant Michigan" campaign was launched February 27 at a special luncheon at Monroe, Mich., at which Mrs. Mennon G. Williams, wife of Michigan's governor, was presented with a flowering magnolia for the governor's mansion by James I.E. Ilgenfritz, Monroe, Mich., president of the American Association of Nurserymen.

Further plans for the campaign will be presented at the inaugural dinner of the Detroit flower show to be held March 23 at Detroit.

FACILITIES of the Home Nursery, Edwardsville, Ill., are being increased with the addition of a new salesroom.

FORMERLY operator of the Riverside Nurseries, Herbert L. Holcomb opened the West Virginia Chestnut Nursery, P. O. Box 5, South Charleston, W. Va., in September.

HARDY NATIVE EVERGREENS

Collected Stock
Canadian Hemlock, American
Arbervitae, Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdgs.....	\$0.80	\$ 5.00
3 to 6 ins., sdgs.....	1.50	10.00
6 to 9 ins., sdgs.....	2.50	15.00
9 to 12 ins.....	6.00	40.00
12 to 18 ins.....	8.00	65.00

All first-quality stock, well rooted and packed in sphagnum moss.

Send for trade list.

Cash, please.

R. M. COLE

Box 37 CHARLOTTE, VT.

LINERS

Ask for list.

BROUWER'S NURSERIES
Box 25 NEW LONDON, CONN.

EVERGREENS

Seedlings and Transplants

Spring, 1950

Write for price list.

SUNCREST EVERGREEN NURSERIES
JOHNSTOWN, PA.

CHOICE ITEMS

	Each per 100
50 <i>Cotoneaster Apiculata</i> , 15 to 18 ins.....	\$1.50
500 <i>Asclepias Mollis</i> , named, 12 to 15 ins.....	1.75
30 <i>Ginkgo</i> , 8 to 10 ft.....	3.00
15 <i>Cornus Florida Plena</i> , 2 1/2 to 3 ft.....	2.50
15 <i>Cornus Florida</i> , 7 to 9 ft.....	7.00
150 <i>Cornus Florida Rubra</i> , 16 to 24 ins.....	1.00
150 <i>Franklinia A.</i> , 10 to 14 ins., T.....	.50
500 <i>Taxus Capitata</i> , 2-yr. S.....	.12
1000 <i>Ilex Convexa</i> , 6, \$50.00 per 1000	
10 <i>Magnolia Lennel</i> , 4 to 5 ft.....	7.00
100 <i>Pony</i> , high-rated, B&B.....	1.50
200 <i>Taxus Hatfieldi</i> , 4-yr., XX.....	\$80.00
400 <i>Red Barberry</i> (Conn. only), 3-yr., X.....	20.00

Other choice items. Cash with order.
50 at 100 rate; 500 at 1000 rate.

BRIMFIELD GARDENS NURSERY
245 BRIMFIELD RD.
WETHERSFIELD, CONN.

CHINESE, ENGLISH and AMERICAN HOLLY

22 English varieties.
Hardy, named stock.

Send for FREE CATALOG.

The WILMAT HOLLY CO.
Box 304-F NARBERTH, PA.

KOREAN PINE (Nut Pine)

For PARKS and ESTATES

3 to 5 feet

ELFGREN NURSERIES
EAST KILLINGLY, CONN.

This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

NORMAL PRODUCTION?

The other day a nurseryman visiting us remarked after inquiring for certain items of nursery stock that he could not locate anywhere, "It's beginning to look as though we will have to have another depression so we can catch up on our propagation."

Of course, we all hope not for that would be too severe a remedy. But from my own observations in our section, there are serious shortages in certain kinds of nursery stock that will be with us for a long time. There was a brief period of overproduction of some fruit items marketed last year, but I sometimes wonder if any of us can estimate normal production in the ornamental lines for the present or near future.

The war did much more than merely curtail production for four or five years. Among other things, it changed the value of the dollar so that a business must do almost double its prewar turnover in plants. It raised wages both directly and indirectly so that we look with great seriousness on any great increase in production. We may double our propagation of a certain item, but we think twice about the cost of producing ten times as many. Our inventories have become considerable investments. The same great increase in wages has increased, although not so much as was hoped, the proportion of the population that can afford ornamental plantings. There has also been a still greater increase in the proportion of the population that considers plantings a necessity. We know from our own experience that the number of farmers that buy plants has increased considerably. Even ten years ago the average farmer thought of a tree as so much cordwood; today that is all changed.

Not long ago I was talking to a wealthy man of considerable financial astuteness, who remarked, in answer to a statement of mine, that he did not consider the nursery business a luxury in any way. Perhaps the outsiders are ahead of us in their thinking in this respect.

There has been a considerable increase in population, for which we have to produce nursery stock. There has also been a trend of population to towns from the farms and to towns

and suburban areas from large cities, adding to our market.

All of these factors sometimes make me wonder if the production of ornamental nursery stock may not increase until our dollar volume reaches four and five times its pre-war figure.

Back during the 1920's we as nurserymen overproduced while we as a people overbid stocks on the stock market. I believe a parallel exists today. Look at the stock market. (Don't laugh; it's worth studying.) For the past three years stocks have been seriously undervalued, a peculiar phenomenon, but neverthe-

less true. Psychologically, we are afraid to buy them, for our thinking has not reconciled our new value of the dollar nor our wider-spread purchasing power.

For a firm doing a \$50,000 gross business to double its volume, it would be necessary to invest at least an additional \$20,000 in capital assets plus another \$20,000 in annual operating expenses. I question under such conditions if there will be wild propagation.

E. S. H.

THE MARYLAND GARDENER.

For some time there has been published a garden magazine entitled the Maryland Gardener and sponsored by the Federated Garden Clubs of Maryland. Within the past year it has been issued monthly. The quality of the magazine and its contents are excellent, slick paper is used and numerous photographic cuts of good

FINE LINING-OUT EVERGREENS

We offer the following stock for delivery now or later. No packing charges. 25 per cent deposit on all C.O.D. orders.

	Per 100	Per 1000
ARBORVITAE		
Boothii, 4 to 6 ins., X.....	\$16.50	
Elegantissima, Golden Pyramidal, R. C.....	8.00	\$ 75.00
Elegantissima, Golden Pyramidal, 4 to 6 ins., X.....	16.50	
Globe, R. C.....	7.00	65.00
Globe, 4 to 6 ins., X.....	16.50	155.00
Nigra, Dark Green American, R. C.....	8.00	75.00
Pyramidalis, Pyramidal, R. C.....	8.00	75.00
Pyramidalis, Pyramidal, 4 to 6 ins., X.....	16.50	155.00
Orientalis, Chinese seedling, 1-yr.....	2.50	20.00
BOXWOOD		
Sempervirens, 1-yr., X.....	6.50	60.00
Sempervirens, heavily rooted, R. C.....	5.00	45.00
Suffruticosa, Old English, dwarf, R. C.....	5.00	45.00
Suffruticosa, Old English, dwarf, 3 to 4 ins., X.....	6.50	75.00
JUNIPER		
Hibernica, Irish Juniper, 6 to 8 ins., X.....	16.50	
Andorra, 4 to 6 ins., X.....	16.50	
Hetzii Glauca, Blue Spreader, R. C.....	8.00	75.00
Hetzii Glauca, Blue Spreader, 4 to 6 ins., X.....	17.50	165.00
Stricta, Spiny Greek, 4 to 6 ins., X.....	17.50	
TAXUS		
Cuspidata, Jap. Spreading Yew, R. C.....	8.00	
Cuspidata, Jap. Spreading Yew, 4 to 6 ins., X.....	17.50	165.00
Cuspidata, Jap. Spreading Yew, heavy, 4 to 6 ins., X.....	18.00	
Capitata, Jap. Upright Yew, R. C.....	8.00	75.00
Capitata, Jap. Upright Yew, 4 to 6 ins., X.....	18.00	
CYPRESS Allumi, 8 to 10 ins., X.....	18.50	
ILEX Crenata, Jap. Holly, R. C.....	7.00	
ILEX Crenata, Jap. Holly, 4 to 6 ins., X.....	16.50	

Write for our complete list.

ESHAM'S NURSERIES

FRANKFORD, DEL.



FOR 52 YEARS

Our business has been growing

Rhododendrons

Azaleas

Perennials, Roses

All Nursery Items

BOBBINK & ATKINS

E. RUTHERFORD, N. J.

I'm featuring America's 3 Great Gardening Aids this year for greater sales and profits!

• Garden Supply Dealers everywhere are concentrating on the Vigoro gardening line — Vigoro (America's best known plant food), End-o-Pest (all the pest protection most gardens need) and End-o-Weed (improved lawn weed killer). They know that these products are backed by the most powerful advertising in the garden supply field; have wide customer acceptance; are repeat items that sell each other. It pays to merchandise, advertise and display the Vigoro gardening line together. See for yourself how easy it is to make 3 sales . . . 3 profits.

**Vigoro is the trade-mark for Swift & Company's complete, balanced plant food.*

*That's because all 3
just naturally sell
together!*



End-o-Pest **VIGORO*** End-o-Weed

Products Presented By
SWIFT & COMPANY
Plant Food Division

U. S. Yards

Chicago 9, Ill.

quality illustrate each issue. It has made a good start and in many ways compares favorably with a well established magazine called Horticulture. In addition to the sponsorship by the garden clubs, the magazine has had fine encouragement from the publisher.

From the interested outsider's point of view, the magazine has much to recommend it. To make a magazine of this quality pay and to sustain the high quality of the subject matter will not be easy; so the next two or three years probably will be the difficult ones for the editors and publishers. The magazine can serve a definite need. But since its considered area of interest is Maryland, the District of Columbia and surrounding territory, the title is a bit unfortunate. I doubt if Maryland garden interests can support a magazine of such caliber. A larger area, from Pennsylvania and New Jersey to the Carolinas, probably could.

Gardening interest in this country by necessity is regional, and, in spite of Horticulture's success in making itself a national magazine, that interest in it comes from the northeastern part of the United States is still evident. Since the wealth of the country has spread more widely, the growth of gardening in the tidewater

LARGE PIN OAKS

200 Specimen Plants

6 to 12-in. caliper

\$50.00 each

(In the ground)

MARTIN VIETTE

Manetto Hill Rd.

HICKSVILLE, N. Y.

ORNAMENTAL EVERGREENS

Trees & Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

QUALITY MERCHANDISE AT REASONABLE PRICES

See our ad on page 5 of the
February 1 issue.

C. L. VANDERBROOK & SON
MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

Protect your TREES with CHASE Spiral Tree Wrap



Both Tree Wrap and Nursery Squares made from crinkled kraft paper, laminated with asphalt. Special Wrap comes in easy-to-handle rolls, in varying widths. Protects against sun scald, severe frost, rodents, and abrasions. Maintains moisture content of bark.

CHASE DUPLEX NURSERY SQUARES

Have many protective uses. Come in wide variety of ready-cut sheet sizes to save you time and labor.



Mail
this Coupon
TODAY!

Chase Bag Co.
309 W. Jackson Blvd., Chicago 6, Illinois
Gentlemen:

Please send me more information about

- ☐ Chase Duplex Tree Wrap
☐ Chase Nursery Squares
☐ Please have salesman call

Name.....

Address.....

CHASE BAG CO.

General Sales Office: 309 W. Jackson Blvd., Chicago 6, Illinois
Branches Located Coast to Coast

ACER PLATANOIDES • NORWAY MAPLES

	Per 100
6 to 8 ft., ¾ to 1-in. cal.	\$ 60.00
8 to 10 ft., 1 to 1½-in. cal.	75.00
Specimen trees	100.00
9 to 11 ft., 1½ to 2-in. cal.	125.00
Specimen trees	200.00
10 to 12 ft., 2 to 2½-in. cal.	250.00
Specimen trees	400.00
11 to 13 ft., 2½ to 3-in. cal.	500.00
Specimen trees	600.00

All these trees are well branched with fine fibrous roots and have been twice transplanted. Additional charge of 15 per cent will be added for balling. No charge for loading trucks here at the nursery.

When C.O.D. shipment is desired, a cash deposit of 25 per cent must accompany order.

Orders for less than 100 of a size will be invoiced at an ADVANCE of 25 per cent OVER THE HUNDRED RATE.

STATE ROAD NURSERY

Route 1 State and Sprout Rds. MEDIA, PA.

LINING-OUT STOCK

If you have not received a copy of our 1950 price list and are interested, send for same.

THOMAS B. MEEHAN CO., Inc.
DRESHER, PA.

ROSA MULTIFLORA JAPONICA

Thorny Type; ideal for fences.

Orders taken for Fall, 1950, and Spring, 1951.

BROOKVILLE NURSERIES
GLEN HEAD, N. Y.

er section of the afore-mentioned states has been tremendous, and the garden problems, plants and designs differ materially from those common in Massachusetts.

The Maryland magazine has a certain number of articles on subjects of related interest, such as furniture and glassware, and parallel advertising. This would be both necessary and advisable as long as these related items are subordinated. Garden magazines that do not fail too often graduate their editorial and advertising into other interests until gardening becomes too minor a part of the whole.

The April issue of the Maryland Gardener will be merged with a booklet describing the thirteenth annual Maryland house and garden pilgrimage. This booklet is a profusely illustrated magazine-size publication of more than 100 pages and sells for \$1 per copy. Since it contains numerous photographs, many in color, of old colonial Maryland homes and gardens, it is a publication that should be valuable to nurserymen and gardeners wherever they may live. It is published at 3110 Elm avenue, Baltimore 11, Md. E. S. H.

HOLLY SOCIETY TO MEET.

A 2-day meeting of the Holly Society of America will open at 2 p. m. March 30, at the National Arboretum, Washington, D. C., under the direction of Harry Gunning, assistant director of the arboretum. Members will observe holly specimens there and also discuss expansion of the plantings. Optional trips to see other holly plantings in the capital area are also planned. In the evening H. Gleason Mattoon, consulting forester, Narberth, Pa., will talk on "Unusual Specimens of English Hollies along the Eastern Seaboard," at an informal social session at the agriculture auditorium, University of Maryland, College Park.

The formal meeting will begin March 31 with committee reports and will be held at the University of Maryland. Roger Pease, hillculturist, West Virginia agricultural experiment station, will tell about the West Virginia holly program; Henry Hohman, Kingsville Nurseries, Kingsville, Md., will talk on "Hardy Hollies and How to Grow Them," and Miss Helen Irene Smith, home demonstrations agent, Maryland extension service, will talk on "The Use of Holly as a Decoration in Home Furnishings." As a feature of the program the society will send to New Zealand several small hollies to be planted around the war memorial building at Auckland.

SCARFF'S Nursery



Headquarters for Small Fruit Plants

All heavy, well rooted plants in perfect planting condition; from refrigerated storage for immediate shipping service.

RED and BLACK RASPBERRY PLANTS, 1 and 2-yr.
(Complete list of varieties)

BOYSENBERRIES, 1 and 2-yr.

BLUEBERRIES — BLACKBERRIES — JUNE BERRIES
CURRANTS — GOOSEBERRIES

Send for complete Trade List and lowest prices and your list of wants.

RHUBARB ROOTS

Valentine—New, All-Red, No. 1 divisions. Sugar-sweet for culinary use and freezing. Stalks and pith remain red throughout the summer. Best of all the Red strains.

MacDonald—Standard Red Rhubarb. Large stalks and high quality. Heavy, No. 1 divisions.

Linnaeus Rhubarb—Whole roots in sizes 1/2 to 2-in. caliper and up. All dormant roots from refrigerated storage.

ASPARAGUS ROOTS

Paradise and Mary Washington varieties—1, 2 and 3-yr., heavy clumps.

HORSE-RADISH: Root cuttings, 6 to 9 ins.

MISCELLANEOUS

Adams Imp. Elderberry, 18 to 24 ins. and 2 to 3 ft.

Buddleia Imp. Magnifica, 2 to 3 ft. (Prolific bloomer, long, light, lavender spike.)

Chinese Chestnuts,

1-yr., whips, 3, 4 and 5-ft. sizes.

3-yr., heavy, br., 2, 3, 4 and 5-ft. sizes.

Forsythia Spectabilis, 1, 2 and 3-yr., in 3, 4 and 5-ft. sizes.

Hall's Honeysuckle, 2-yr., field-grown.

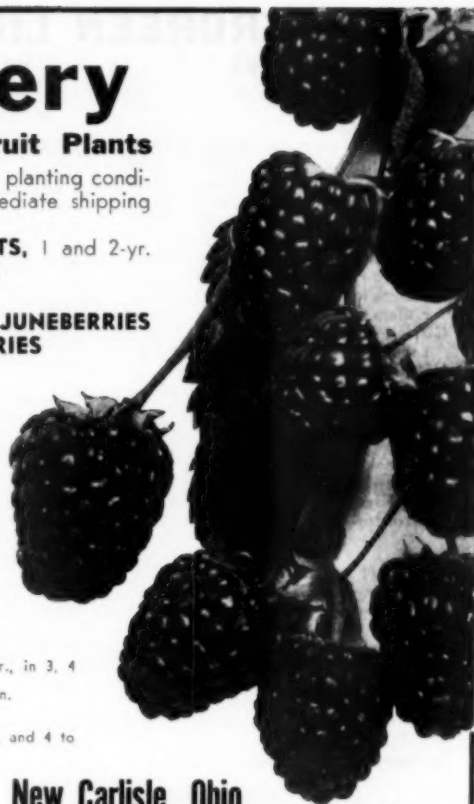
Magnolia Soulangiana Nigra,

Moss Balls, 3, 4 and 5-ft. sizes.

Spiraea Vanhouttei, 3-yr., 3 to 4-ft. and 4 to 4 1/2-ft. sizes.

W. N. SCARFF'S SONS

New Carlisle, Ohio



MICHIGAN LANDSCAPE MAN SEEKS NOMINATION.

Jan B. Vanderploeg, Muskegon, Mich., who has spent nearly twenty-five years in the landscape architect business, was the first to enter Michigan's 1950 congressional race in the ninth district. A North Muskegon city councilman, he will seek the Democratic nomination.

The chairman of the social action committee of the Muskegon County Council of Churches, Mr. Vanderploeg was recently appointed by Governor Williams to the mid-century American rededication commission to coordinate Americanism programs in the state.

The candidate is a graduate of Hope College, Holland; he also attended Western Theological Seminary and the graduate school at Harvard University. He was a community planner for the resettlement administration in Arkansas, Louisiana and Mississippi, but has lived in western Michigan for more than twenty years.

FORMERLY part owner of the Mountain Nurseries, at Boiceville, N. Y., Ben R. Loether is starting an evergreen nursery on the Olive Dun Farm, Olive Bridge, N. Y.

LINING-OUT STOCK

Spring, 1950

Write for Our Illustrated List

TRANSPLANTS

	Per 100	Per 1000
Irish Juniper, T-2, 12 to 18 ins., 10 or more, each \$0.40.....		
Waukegan Juniper, T-2, 8 to 10 ins.....	\$20.00	
Creeping Savin Juniper, 2-2, 4 to 8 ins.....	15.00	
Balsam Fir, 2-2-1, 4 to 8 ins.....	7.50	\$50.00

SEEDLINGS

Douglas Fir, 2-0, 4 to 8 ins.....	4.00	25.00
White Spruce, 3-0, 2 to 4 ins.....	4.00	22.50
White Spruce, 3-0, 4 to 6 ins.....	5.00	30.00
Black Hills Spruce, 3-0, 2 to 4 ins.....	4.00	22.50
Dwarf Montana Mugho Pine, 2-0, 2 to 4 ins.....	3.00	25.00
Austrian Pine, 2-0.....	3.50	25.00
White Pine, 2-0, 2 to 4 ins.....	3.50	28.00
Oriental Cedar, 2-0, 2 to 5 ins.....	3.00	15.00
Papyrifera Birch.....	7.50	50.00
Balsam Fir, 2-0, 1 to 4 ins.....	2.50	15.00
Green Barberry, 2-0, 6 to 12 ins.....	1.50	8.00
(5000 or more at \$6.00 per 1000.)		

Scotch Pine Seedlings

2-yr. stock from Danish seeds.

	Per 100	Per 1000	Per 5000	Per 10,000
Scotch Pine, 2-0, 1 to 3 ins.....	\$3.00	\$18.00	\$ 80.00	\$150.00
Scotch Pine, 2-0, 3 to 7 ins. Sold Out.				

Glad to mail sample.

Terms: Cash with order, please, or 25 per cent with order and balance April 1. Packing included in price; shipment by express, collect.

25 at 100 rate; 250 at 1000 rate; will quote on 5000 or over.

E. C. MATTHEWS

Telephone: 123

HARBOR SPRINGS, MICH.

EVERGREEN LINERS

CONIFERS

All plants in 2 1/4-in. pots.

ARBORVITAE	Per 100	Per 1000
American Compacta	\$20.00	\$175.00
Elegantissima	20.00	175.00
Globosa	20.00	175.00
Lutea (Geo. Peabody)	20.00	175.00
Pyramidalis	20.00	175.00
CHAMAECYPARIS (Retinospora)		
Pisifera Filifera	17.50	150.00
Pisifera Plumosa	17.50	150.00
Pisifera Plumosa Aurea	17.50	150.00
Pisifera Crippsi	17.50	150.00
CUNNINGHAMIA		
Lanceolata Glauca	20.00	175.00
HEMLOCK, 1 1/2 yrs. in pots, ready for field	25.00	200.00
JUNIPERUS		
Conferta (Litoralis)	17.50	150.00
Excelsa Stricta	20.00	175.00
Kiyenoi	17.50	150.00
Mayeri	17.50	150.00
Pfitzeriana	20.00	175.00
Sylvestris	20.00	175.00

AZALEAS

For Spring Delivery.

2 1/4-in. pots—\$150.00 per 1000

Hinomayo	Purple King
Snow	Firefly
Ledifolia Alba	Kaempferi
Poukhanensis	Lady Lilac

Special, 10c ea.
12,000 Coral Bells, extra-heavy
15,000 Hinodegiri



ORDERS BOOKED
SUBJECT TO
STOCK BEING
UNSOLD.

GRESHAM'S NURSERY

R. F. D. NO. 9

RICHMOND 24, VA.

BROAD-LEAVED EVERGREENS

All plants in 2 1/4-in. pots.

BERBERIS	Per 100	Per 1000
Julianae	\$17.50	\$150.00
COTONEASTER		
Francheti	17.50	150.00
Repens	17.50	150.00
Salicifolia	17.50	150.00
ELAEAGNUS		
Pungens	17.50	150.00
EUONYMUS		
Patens	15.00	125.00
Coloratus	12.50	100.00
ILEX		
Cassine	17.50	150.00
Conveza Bullata	17.50	150.00
Cornuta Burfordi	20.00	175.00
Crenata Microphylla	17.50	150.00
Crenata Rotundifolia	17.50	150.00
Crenata Helleri	20.00	175.00
Glabra	17.50	150.00
Opaca (cuttings from choice heavy berry-bearing plants)	27.50	250.00
LIGUSTRUM Lucidum	17.50	150.00
OSMANTHUS		
Aquifolium	17.50	150.00
Fortunei	17.50	150.00
PHOTINIA Serrulata	17.50	150.00
PYRACANTHA		
Crenato-serrata	17.50	150.00
Lalendi	17.50	150.00
Gibbsii	17.50	150.00
VIBURNUM		
Rhytidophyllum	20.00	175.00
CYDONIA		
Japonica Alba	17.50	150.00

300 of one variety at 1000 rate.

SAMPLES ON REQUEST.

TULSA OFFICERS.

New officers were elected at a meeting of the Tulsa Nurserymen's Association held February 21 at Tulsa, Okla. The new president is Howard G. Jensen, Jensen & Himes Landscape Service, and the vice-president and secretary-treasurer are Mario Sanseverino and L. P. Cummings, respectively, both of O. K. Gardens Nursery & Landscape Co.

H. C. Hunter, Hunter & Sons Nursery, Turley, Okla., has purchased forty acres in the fifty-five hundred block on North Cincinnati avenue, to which he expects to move the nursery. A new home will be constructed there, and the moving of nursery stock will be in process for about a year.

Of interest to landscape architects and nurserymen as well as laymen was the series of lectures by Mary Deputy Lamson, a landscape architect from New York city, before the Tulsa Garden Club February 7 to 10. Mrs. Lamson discussed design for outdoor living, succession of bloom in the garden, gardening with shrubs and garden housekeeping. She emphasized the practical value of a landscape architect's services in planning the home environs. R. W. C.

SOUTHWESTERN NEWS.

Having been purchased by Gordon B. Garrett, the Treadwell Nursery Co., Great Falls, Mont., is now known as the Garrett Nursery Co.

The E. Mosher Nursery, Lamar, Colo., has purchased twelve lots in the south part of the city and will construct two greenhouses, 28x100 feet.

Don Roepke, a recent graduate of Kansas State College, Manhattan, in landscape gardening, is now in charge of the newly created landscape department of J. H. Skinner & Co., Topeka, Kan.

The Tooley Flower Shop, Hamilton, Mo., is starting a nursery department.

O. F. Carr, 2311 West Eighth street, Coffeyville, Kan., has purchased the Coffeyville Nursery from Clyde Toon, and will operate it as Carr Nursery, Inc.

Three large roadside improvement contracts were let in Kansas recently. One on U. S. highway 75 south of Topeka was awarded to Tope Landscape Co., Independence, on a bid of \$10,075. Deer Landscape Co., Neodesha, was low bidder for a landscape planting on a large cloverleaf north of Topeka, with a bid of \$9,382. The third contract was let to Sutton Nurseries, Independence,

The HOME of
Better New Perennials
PLANTS THAT PAY THEIR WAY!

Originators — Disseminators

**CORLISS BROS., Inc.,
NURSERIES**

17 Reynard St. Gloucester, Mass.

PINK DOGWOOD

1 1/2 ft., \$75.00 per 100

Please send cash, money order or check.

Wm. E. WENTZELL NURSERY
SEWELL, N. J.

CHINESE CHESTNUT TREES
Blight-resistant,
TREES—TRANSPLANTS—LINERS

THE GOLD CHESTNUT NURSERY
Cowan, W. Va.

CHARLES SIZEMORE Traffic Manager

319 1/2 Georgia St., Louisiana, Mo.

Loss and damage claims against railroad and express companies collected.

Freight bills audited.

Past due notes and accounts collected.

Well known to the nurserymen of the country.

Reference: Bank of Louisiana.

The **CHRYSANTHEMUM**
CATALOG you cannot afford
to be without.

WONDERLAND NURSERIES
Ellerson, Va.

Old English BOXWOOD

(Wholesale Only)

SELLING OUT. Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS

Mrs. R. P. Royer High Point, N. C.

for \$18,557, for a planting in Johnson county.

Aubrey A. Hart, Blackwell, Okla., who for many years operated a florists' and nursery business, has turned it over to his son, John W. Hart, who will continue to use the name Hart Floral Co. J. P.

ROCKEFELLER CENTER APPOINTMENT ANNOUNCED.

Homo Hagemeister, a prominent landscaping expert and estate manager, of Morris Plains, N. J., has been appointed as horticulturist at Rockefeller Center, New York, to succeed the late A. M. Van den Hoek.

A native of Denmark and a graduate of the Soro Academy there, Mr. Hagemeister came to the United States in 1921. His first position in America was as a landscape architect with Tate Landscaping Co., Mamaroneck, N. Y. In 1929 he planned and landscaped the Tom Huston estate at Columbus, Ga., and from 1931 until 1938, managed the Untermeyer estate, at Butler, N. J. Since that time he has been manager of the J. O. Hammitt estate, Morristown, N. J., and since 1945 has also held the position of horticultural advisor and sales representative for the Doggett-Pfeil Co., Springfield, N. J.

Mr. Hagemeister, a past president of the Morris County Gardeners' and Florists' Society, has managed the group's annual flower show since 1940. He is also a trustee of the New Jersey Florists' Association and a prominent member of the Morristown Kiwanis Club.

RECORD REGISTRATION OF PENNSYLVANIA NURSERIES.

An all-time high in nursery registration is reported for the state of Pennsylvania by Dr. Thomas L. Guyton, director of the state bureau of plant industry. In the annual list of certified nurserymen just published, which covers the year beginning October 1, 1949, and ending September 30, 1950, are listed 1,139 certified nurserymen, their addresses, acreage and kinds of stock grown. By January 31 a record registration of 1,171 certified nurseries had been reached. The previous high was in 1942 when 1,149 nurserymen were listed as producing stock from nurseries inspected and certified by the state.

Many nurseries were forced to close down during the war, and the low point in that period was reached with 957 registrations.

The bureau also lists 323 certified dealers and seventy-five collectors of native plants this year.

TAXUS

In Landscape Sizes
(with J. B. certificate)

TAXUS cuspidata (Spreading Yew)	Each per 100	TAXUS cusp. columnaris (Columnar Jap. Yew, dark green)	Each
15 to 18 ins., spreading..	\$ 2.25	5 to 5 1/2 feet.....	\$18.00
2 to 2 1/2 ft., spreading..	4.75	5 1/2 to 6 feet.....	20.00
2 1/2 to 3 ft., spreading..	6.00	6 to 7 feet.....	24.00
3 to 3 1/2 ft., spreading..	8.25		
TAXUS cusp. capitata (Upright Yew)		TAXUS media hicksi (Hicks' Yew)	
2 to 2 1/2 feet.....	4.00	2 to 2 1/2 feet.....	3.75
2 1/2 to 3 feet.....	5.25	2 1/2 to 3 feet.....	4.75
3 to 3 1/2 feet.....	7.00	2 1/2 to 3 feet, specimens	6.00
4 1/2 to 5 feet.....	14.50	3 to 3 1/2 feet.....	6.25
5 to 5 1/2 feet.....	16.50	3 to 3 1/2 feet, specimens	7.25
5 1/2 to 6 feet.....	19.00		
TAXUS cusp. capitata (compact specimen)		TAXUS media hatfieldi	
5 1/2 to 6 feet.....	23.00	1 1/2 to 2 feet.....	3.00
6 to 7 feet.....	27.00	2 to 2 1/2 feet.....	4.00
7 to 8 feet.....	35.00	2 1/2 to 3 feet.....	5.00
		2 1/2 to 3 feet, specimens	6.00
TAXUS cusp. capitata (wide specimens, tightly sheared)		3 to 3 1/2 feet.....	7.25
2 to 2 1/2 feet.....	5.00		
2 1/2 to 3 feet.....	6.50	TAXUS cusp. nana (brevifolia)	
3 to 3 1/2 feet.....	8.00	12 to 15 inches.....	2.25
		15 to 18 inches.....	3.25
		1 1/2 to 2 feet.....	4.50
		2 to 2 1/2 feet.....	6.25

The above prices are for truckload or carload lots only.

LINING-OUT TAXUS

(3-yr.-old transplants—best strain)

	Per 100	Per 1000
TAXUS cuspidata capitata , 12 to 18 inches.....	\$60.00	\$550.00

Many other items suitable for landscape trade. Write for price list.

BULK'S NURSERIES, Inc., Babylon, L. I., N.Y.

EUONYMUS ALATUS FOR LINING OUT

From 2 to 4 ft., single stems.

When cut back they make beautiful plants in two years.

\$25.00 per 100 \$225.00 per 1000

Will not ship out of the beetle zone.

BLUE RIDGE NURSERY

R. D. 3

HARRISBURG, PA.

Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

W. - T. Smith Corporation
Telephone 2689 GENEVA, N. Y.

PACHYSANDRA

The ideal permanent ground cover plant for shady areas in all climates. Strong, well rooted 1-yr.-old plants, \$3.75 per 100; \$35.00 per 1000; 5000 or more at \$32.50. Available March through November.

PEEKSKILL NURSERY SHRUB OAK, N. Y.

BURR

Leading wholesale source for
Nursery Stock

Send us your Want List.

C. R. BURR & CO., INC.
Manchester, Conn.

POTTED LINERS

GRAFTS

(Beetle Certified)

HEASLEY'S NURSERIES

Freeport Rd. BUTLER, PA.

WHITNEY'S NEW Plastic Package a Hit!

Your Customers SEE the Super-Refined Quality of WHITNEY'S Lawn Seed

WHITNEY'S New Plastic Package does a real merchandising job. And, as the package reads, "Germination is sealed in."

WHITNEY'S 1950 national advertising is just starting. Thousands of new customers are looking for WHITNEY Lawn Seed Dealers. Write today for prices and full information on FREE merchandising helps.

WHITNEY SEED CO., INC., Buffalo 5, N. Y.

The Homestead Nurseries

H. G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials—Quality Stock in All Leading Varieties. Trade catalog on request.

DEVELOPING NURSERY SALES AND DISPLAY GROUNDS

\$1.00 per copy.
AMERICAN NURSERYMAN, 343 So. Dearborn St., Chicago 4, Ill.

Holland-Grown Nursery Stock

Shrubs and Trees, including liners.
Rhododendrons and Azaleas
Hardy Perennials
Peonies

NOVELTIES IN ALL LINES
Ask for wholesale catalog.

F. J. Grootendorst & Sons

BOSKOOP, HOLLAND

Growers and exporters since 1903

WILLIAM VAN HERREWEGHE

(formerly W. E. & R. Van Herreweghe)

Export Nurseries

SERSKAMP, near GHENT, BELGIUM

FRUIT TREE STOCKS

EAST MALLING TYPES

ORNAMENTAL SHRUBS

FOREST PLANTS and Seedlings

ROSES and EVERGREENS

Prices on application.

VUYK VAN NES BOSKOOP HOLLAND

Originators of Azalea Vuykiana,
Growers of choice Nursery Stock.

Please direct your correspondence to:

140 CEDAR STREET NEW YORK 6, N. Y.

"BRODLEAF" HOLLAND PEAT MOSS

Fully Matured—Packed Dry—Saves Freight
20 LARGE 4-bu. BAGS (2 color).....\$29.00
30 MEDIUM 2-bu. BAGS (2 color)..... 24.00
10 Large Standard Bales, each..... 4.00

Ask for delivered carload prices on:
STANDARD BALES — EXTRA BALES — JUMBO BALES

HALF MOON MFG. & TRADING CO., Inc.
90 West Street New York 6, N. Y.

Quality Holland Bulbs

C. WESTERBEEK & SON, Inc.

Wholesale Growers and Exporters.

Sassenheim
Holland

44 Whitehall St.
New York, N. Y.

Write for price list.

Maurice C. Ravensberg

Boskoop, Holland

Reliable firm for general Nursery Stock
and Belgian plants.

Catalog on application.

AMERICAN NURSERYMAN COVER ILLUSTRATION.

Fraxinus Velutina Glabra.

The Modesto ash, *Fraxinus velutina glabra*, has become one of the leading shade trees planted in southern California since its discovery about twenty years ago as a chance seedling in a planting of Arizona ash in the city park of Modesto, Calif. Its larger leaf, denser foliage, brighter green color and more compact head made it the outstanding tree in the entire planting. Recognizing these good points, plus the fact that it does not have bothersome seed pods, the park authorities introduced the Modesto ash to the local nurserymen.

This tree has been planted extensively in the interior valleys of California, in the Los Angeles area, in the coastal area except at the ocean's edge, and in the foothills. In Arizona it has been planted in and about Phoenix and Tucson.

Planted in sandy, heavy loam and adobe soils, the tree has demonstrated the adaptation of the ash rootstocks to thrive in all these soils. After the tree is established, it will withstand dry periods common to the arid areas of the southwestern United States. It will grow with equal vigor in other states where temperatures are slightly above zero Fahrenheit, as sub-zero temperatures appear to be a limiting factor.

The Modesto ash is a medium-size tree, twenty-five to thirty feet in height, excellent for parkway, avenue and garden planting. It is a fruitless variety, leafing early in the spring and dropping its leaves late in the fall. Once it starts to shed its leaves, it does so in ten days to two weeks. Being a rapid grower, it will provide shade in a few years.

It is usually budded or grafted on Arizona, green or white ash seedlings, providing a healthy rootstock and a uniform top.

Willis A. Stribling.

RECENTLY started by Charles P. Tomlinson are Graybar Gardens, 1610 Graybar lane, Nashville, Tenn.

FLORAL service has been added to the nursery and landscape business of Lloyd J. Buchanan, Orland, Ind.

FRERIKS & CO.

Wholesale Bulb Growers and Exporters

HILLEGOM, HOLLAND

MALLING STOCKS

We offer Malling Stocks I, II, VII, IX, XVI and Quince A, B and C from stool beds originally supplied by East Malling Research Station. Guaranteed true-to-type and free from all disease.

Prices F.O.R., Liss Station, England.
Per 100 Per 1000
Firsts, 6 to 12 mm. \$6.00 \$56.00
Seconds 5.50 50.00

Also all the latest English varieties of fruit trees such as:

APPLES—Winston, Sunset, Laxton's Advance, Laxton's Epicure, Laxton's Fortune, George Neal, James Grieve, Tydemann's Early Worcester (mostly bred from Cox Orange).

PEARS—Laxton's Superb, Improved Fertility.

PLUMS—Early Laxton, Marjories Seedling.

All on stocks recommended by East Malling Research Station.

Prices on application.

The Manager, Fruit Office

BLACKMOOR ESTATE
LISS, HAMPSHIRE, ENGLAND

MYROBALAN SEED

LOVELL PEACH PITS

Nation's Leading Source

Write today for quotations.



A. B. C.

"Supreme" Quality

SEEDS — PLANTS — BULBS

and

Growers' Accessories

Write for our latest prices.

AMERICAN BULB CO.

1335 W. Randolph St. CHICAGO 7
31 W. 27th St. NEW YORK 1

SEEDS

Collectors of Tree, Shrub and Wild Flower Seeds

Crude Drugs and Ornamentals

E. C. MORAN Stanford, Mont.

LILY SEEDS

We offer the most complete listing of lily seeds available on the American market.

Revised spring price list sent promptly upon request.

EDGAR L. KLINE

Lily Specialist LAKE GROVE, ORE.

GLADIOLI

will pay dividends at the nursery in the sale of bouquets to visitors, and the flowers bring in visitors.

1000 mixed, flowering-size bulbs, 12 or more colors, our collection "N", \$18.50.

Post card brings catalog.

VENNARD'S NURSERY

BOX 394-N SIOUX CITY, IOWA

CANADIAN MEETING.

[Continued from page 11.]

ciples, he said, "Think of advertising's four M's." The first stands for markets. Analyze and find your highest sales potential. The second is for media. Select the media which reach the greatest potential markets with the least waste. The third is for message. Use a sales appeal that will appeal not to you but to the people you are trying to sell. And the fourth represents merchandising. Have a sales appeal at the point of sale. Have a selling angle which creates an incentive to buy, and to buy now.

W. N. Keenan, chief of the plant protection division, Ottawa, Ont., who had recently visited Europe gave "Some Observations upon the European Nursery Industry." The industry is making rapid postwar recovery in the Netherlands, and the nurseries there are the most and best inspected in the world, he said. Belgium has not advanced so far. In April nurserymen from all parts of the world are going to meet in Holland to discuss mutual problems and cooperative methods which may be used both to further trade and aid in pest control. Four representatives will be at the conference from Canada.

The annual banquet was a gay and well attended function. It was the social highlight of the convention, and members brought their wives to enjoy an evening of professional entertainment. President McConnell was chairman at the dinner, and William Haist was master of ceremonies.

Propagation Pointers.

Sessions opened Friday morning with Dr. Chadwick giving a talk on "Propagation," and he dealt briefly with seeds, grafts and cuttings.

Good seeds are most important to seed propagation, and Dr. Chadwick advocated that the nurseryman collect his own seeds. He recommended that they be planted early. The quickest handling of the seeds after they are ripe gives the best germination. Delayed germination is ordinarily caused by the seed coat, endosperm, or embryo, or by a combination of the three. To break the seed coat, acid was suggested but not recommended, and also soaking or stratification at a warm temperature of 75 degrees Fahrenheit. The same method is used to overcome delayed germination caused by the endosperm. In the case of delayed germination caused by the embryo, the embryo might not be fully developed, it might be immature or still in a resting condition.

Dr. Chadwick offered no perfect

FLOWER SEEDS

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AUBRIETA
deltoidea eyrei, purple 1/8 oz. \$0.30
deltoidea graeca, light blue 1/8 oz. .30
deltoidea leichtlini, deep rose 1/8 oz. .35
deltoidea purpurea, deep purple 1/8 oz. .35
deltoidea Whitwell Gem,
rosy purple 1/8 oz. .35
Giant hybrids, mixed 1/8 oz. .30

CAMPANULA
barbata, blue 1/8 oz. .35
carpatia, blue 1/8 oz. .25
carpatia, white 1/8 oz. .25
medium calycanthema Cup-and-Saucer,
dark blue, lilac, rose or white 1/8 oz. .30
medium calycanthema, mixed 1/8 oz. .25
medium, double, mixed 1/8 oz. .25
medium, single, dark blue, lilac, rose-
pink, white or mixed each 1/8 oz. .25
pyramidalis, blue or white each 1/8 oz. .30
rotundifolia 1/8 oz. .40
speculum, mixed 1/8 oz. .25

CARNATION
Enfant de Nice, pale pink, red, rose, salmon, scarlet, violet, white or yellow each 1/8 oz. .90
Enfant de Nice, mixed 1/8 oz. .70
Grenadin Black King, Cardinal Red, Golden Sun, Rose Queen, Snow White, Triumph Pink or White Gold each 1/8 oz. .40

CHRYSANTHEMUM
leucanthemum May Queen
(Spring Marguerite) 1/8 oz. .30
leucanthemum Westralia 1/8 oz. .30

DICTAMNUS
fraxinella, pink 1/8 oz. .35

EREMURUS
bungei perfectus 1/8 oz. .55
robustus 1/8 oz. .60
yellow, orange, bronze, hybrids 1/8 oz. .60

HEUCHERA
sanguinea, crimson 1/8 oz. 1.25
sanguinea Splendens 1/8 oz. 1.50
sanguinea, hybrids, mixed 1/8 oz. .80

LYCHNIS
alpina, rose 1/8 oz. .45
arkwrighti, mixed 1/8 oz. .35
chalcedonica, scarlet 1/8 oz. .25
haageana, hybrids, mixed 1/8 oz. .30
viscaria splendens, rose 1/8 oz. .25

PETUNIA
hybrids, Blue Bee, Flaming Velvet, Gen. Dodds, Howard Star, Rose King, Violacea or White King each 1/8 oz. .35
hybrids, mixed 1/8 oz. .30
hybrids nana compacta
Blue Bedder 1/8 oz. .40
hybrids nana compacta
Celestial Rose 1/8 oz. .35
hybrids nana compacta Glow 1/8 oz. .90
hybrids nana compacta
Rose of Heaven 1/8 oz. .35
hybrids nana compacta
Rosy Morn 1/8 oz. .35
hybrids nana compacta
Silver Blue 1/8 oz. .35
hybrids nana compacta
Snow Queen 1/8 oz. .35
hybrids nana compacta violacea
Blue Bird 1/8 oz. .40
hybrids nana compacta, mixed 1/8 oz. .35

PRIMULA
polyantha, red or yellow each 1/8 oz. .35

THERMOPSIS
caroliniana 1/8 oz. .30

TROLLIUS
europaeus 1/8 oz. .35

VERONICA
perennial varieties, mixed 1/8 oz. .30

VIOLA
cornuta Admiration 1/8 oz. .55
cornuta Arkwright Ruby 1/8 oz. .55
cornuta Avalanche, pure white 1/8 oz. .60
cornuta Blue Beauty 1/8 oz. .80
cornuta Blue Butterfly 1/8 oz. .45
cornuta Blue Eli 1/8 oz. .45
cornuta Blue Perfection 1/8 oz. .55
cornuta Chantreyland, apricot 1/8 oz. .60
cornuta Ilona, wine-red 1/8 oz. .60
cornuta King Henry 1/8 oz. .45
cornuta lutea grandiflora 1/8 oz. .55
cornuta Miss Helen Mount 1/8 oz. .45
cornuta papilio, blue and white 1/8 oz. .45
cornuta papilio, deep violet 1/8 oz. .45
cornuta Puck 1/8 oz. .45
cornuta White Perfection 1/8 oz. .60
cornuta, mixed 1/8 oz. .40

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Mary Washington, 1-yr., No. 1.

PEACH TREES, 1-yr., buds

Fairhaven, Halehaven and Redhaven, in 11/16-in.; 9/16-in.; 7/16-in.; 5/16-in., and 2 to 3-ft. grades.

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Grand Duke, Italian Prune, Methley, Santa Rosa, Shropshire Damson and Stanley Prune, in 11/16-in.; 9/16-in.; 7/16-in.; 5/16-in., and 2 to 3-ft. grades.

SWEET CHERRY, 1-yr., mostly whips

Napoleon, in 7/16-in.; 5/16-in.; 18 to 24-in., and 12 to 18-in. grades.

PEAR, standard, 2-yr.

Bartlett and Kieffer, in 11/16-in.; 9/16-in.; 7/16-in., and 2 to 3-ft. grades.

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Bartlett, in 5/8-in.; 1/2-in.; 3/8-in.; 2 to 3-ft., and 18 to 24-in. grades.

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	Per 100	Per 1000
2 to 3 ft.....	\$16.00	\$150.00
3 to 4 ft.....	20.00	190.00
4 to 5 ft.....	25.00	235.00
5 to 6 ft.....	35.00	330.00
6 to 8 ft.....	45.00	425.00
8 to 10 ft.....	60.00	575.00

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DANVILLE, N. Y.

control for damping off, but advised sowing seeds early enough to obtain germination, recommending sowing either in fall or as early as possible in spring.

In speaking of budding and grafting, Dr. Chadwick stated that the trend is away from grafting, and budding is preferred. Changes are taking place in grafting. Grafts are now laid straight up. He predicted that in the future plunging material would not be used. Most trouble is in the roots, and he recommended that grafting begin as soon as white roots appear.

On the subject of cuttings, Dr. Chadwick said never to reduce the foliage on soft root cuttings. Humidity must be maintained. He also emphasized the importance of the exact time for taking cuttings; for example, the right time for lilac cuttings is at blooming time. He also suggested that labor be reduced in the watering of cuttings by equipping the propagating house with a humidifying system. Mention was also made of other watering systems, such as the forced subirrigation method and the most recent method called the Reverse system.

A. A. N. President Speaks.

The general setup of the American Association of Nurserymen, its activities and the efforts of the committeemen were described by President James IE. Ilgenfritz, Monroe, Mich. One of the recent projects has come from the need of sales and production statistics to determine volume of production in the future. These statistics are being gathered by the association. Another interesting disclosure by Mr. Ilgenfritz was that the average American family spent \$7.50 per year on nursery stock. His talk was concluded by giving details of the "Plant America" program being undertaken in the United States. Mr. Ilgenfritz also invited the members of the Canadian association to attend the seventy-fifth anniversary of the American Association of Nurserymen at Washington, D. C., next summer.

Dominion Scientists Report.

Nursery work at the Dominion Experimental Farms, Ottawa, Ont., was the subject of a talk by M. B. Davis, Dominion horticulturist. Virus diseases have been troublesome, and Mr. Davis stated that the station hopes to be able to supply wood free that is true to strain and variety.

Mr. Davis discussed new varieties of raspberries and strawberries. Two new varieties of raspberries recommended as hardy, vigorous and firm are Ottawa 382 and Ottawa 383. The

former is subject to virus, but has a better berry than the latter, which has shown no virus.

Several new flowering shrubs have been introduced by the station, such as a flaming honeysuckle of the Scarlet Trumpet variety, and Fountain and Peggy Merrill lilacs. In speaking of crab apples, Mr. Davis recommended Cowichan, a pale pink; Simcoe, a medium pink; Rosseau, a medium pink, and Makamik, a dark pink.

In disclosing the work being conducted at the Ontario Agricultural College, Dr. J. S. Shoemaker, head of the horticultural department, called on several professors to tell of the work that they have been doing. E. W. Franklin gave a progress report on the work being done on waxing of ornamentals. O. A. Bradt mentioned the new hybrid French grapes being developed. The following were suggested as good dessert grapes: Seibel 9,110, a white grape, sweet with solid flesh; Seibel 14,664, white, large bunches; Seibel 14,665, resembling the previous one but ripening a week later, and Seibel 15,062, a blue grape. For wine grapes he offered Seyve Villard 172, white, late; Seyve Villard 10,868, white, crops well and does well in heavy soil. Seyve Villard 7,053, 8,357 and 8,745 are blue grapes.

J. C. Taylor discussed new developments with lilies. He advocated laying scales on moist ground, dusting with Arasan to prevent fungus infection and covering with sphagnum moss.

John Weall, department of horticulture, Ontario Agricultural College, discussed landscape gardeners' relations with nurserymen. A questionnaire to landscape gardeners on the most desired nursery stock, revealed the trend was for native material.

The subject of public relations was introduced on the program when Charles Watson, of Canadian Breweries, Ltd., discussed in detail the necessity of public relations in business.

G. H. Berkeley, Sr., pathologist in charge of the Dominion laboratory of plant pathology, St. Catharines, Ont., spoke on certified Montmorency stock and urged nurserymen to acquire new certified stock free from cherry yellows or neurotic ring spot.

The last speaker on the program was John Weall, who gave an illustrated talk on landscaping.

HORACE M. TUCKER has started the Huntertown Garden & Nursery at Huntertown, Ind.

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Offered below are potted rooted cuttings and field bed transplants, x indicating times transplanted. 25 of one item at the 100 rate, 250 at the 1000 rate. No charge for packing when cash accompanies order. Otherwise, 25 per cent with order, balance net 30 days where credit is established. Others, C.O.D. Packing at actual cost. All prices F.O.B. New Augusta, Ind.

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	Each per 100	Each per 1000		Each per 100	Each per 1000
849 Juniperus Horizontalis Plumosa, 1-yr. pots	\$0.17	\$0.15	5265 Taxus Media, Globe, 1-yr. pots	\$0.20	\$0.18
1391 Juniperus Communis, Vase, 1-yr. pots	.17	.15	7655 2-yr. pots	.23	.21
3742 Taxus Cuspidata, 1-yr. pots	.20	.18	2741 6 to 8 ins., x	.25	.22
6022 2-yr. pots	.25	.23	1349 10 to 12 ins., xx	.35	.32
3799 6 to 8 ins., x	.27	.24	2731 Taxus Media Hatfieldi, 1-yr. pots	.20	.18
3960 Taxus Cusp. Intermedia, 2-yr. pots	.25	.23	2909 2-yr. pots	.24	.22
1017 Taxus Cusp., Kallay's Imp., 6 to 8 ins., x	.27	.24	1384 6 to 8 ins., x	.25	.23
1689 Taxus Cusp. Nana, 1-yr. pots	.20	.18	2417 8 to 10 ins., xx	.19	.17
4266 2-yr. pots	.23	.21	1114 Taxus Media Hicksi, 1-yr. pots	.23	.21
897 6 to 8 ins., x	.25	.24	1114 2-yr. pots	.23	.21
1772 Taxus Cusp. Pyramidalis Hilli, 1-yr. pots	.20	.18	4085 10 to 12 ins., xx	.34	.31
1396 2-yr. pots	.24	.22	1865 Taxus Media Thayerae, 1-yr. pots	.20	.18
1884 6 to 8 ins., x	.26	.24	1195 Taxus Media Wellesleyana, 2-yr. pots	.24	.22
3226 Taxus Cusp. Tardiva, 2-yr. pots	.24	.22	410 Thuja Occidentalis Elegantisima, 1-yr. pots	.16	.14
			930 Thuja Occidentalis Globosa, 1-yr. pots	.16	.14
			1897 Buxus, Carr's Hardy, 1-yr. pots	.20	.18
			883 2-yr. pots	.24	.22

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Fine, finished, landscape grades, all B&B, 5 or more at the 10 rate; 25 or more at the 100 rate.

	Each per 10	Each per 100		Each per 10	Each per 100
600 Juniperus Chin. Pfitzeriana, 3 to 4 ft.	\$ 6.00	\$5.50	250 Juniperus Virg. Kesteri, 3 to 4 ft.	\$6.00	\$5.50
600 4 to 5 ft.	7.00	6.50	500 Taxus Cuspidata, 18 to 24 ins.	4.50	4.00
400 Juniperus Horizontalis Plumosa, 2 to 2½ ft.	2.50	2.25	500 2 to 2½ ft.	5.75	5.25
300 2½ to 3 ft.	3.00	2.75	500 Taxus Media Hicksi, 18 to 24 ins.	4.50	4.00
300 Juniperus Horizontalis Douglasi, 2 to 2½ ft.	2.50	2.25	500 2 to 2½ ft.	5.75	5.25
100 Juniperus Virg. Pyramidalis, 7 to 8 ft.	10.00	9.00	100 Thuja Occidentalis 5 ft.	4.00	3.75
			100 Thuja Occidentalis pyramidalis, 4 to 5 ft.	4.50	4.00
			200 Thuja Occidentalis Warana, 2½ to 3 ft.	3.25	3.00



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Blueberry, Jersey, heavy, 18 to 24 ins., B&B	1.50
Taxus Hicksi, 18 to 24 ins.	2.50
Taxus Hicksi, 24 to 30 ins.	3.75
Taxus Hicksi, 30 to 36 ins.	5.00
Taxus Vermeulen, 15 to 18 ins.	2.00
Taxus Vermeulen, 18 to 24 ins.	2.75
Hemlock, 2½ to 3 ft., bushy	2.75
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Arborists' Clinic

The arborists' day of the Ohio short course, presented by Ohio State University at the Neil House, Columbus, January 23, which was reported in the preceding issues, concluded with an arboriculture clinic conducted by a board of experts. Dr. Paul E. Tilford, executive secretary of the National Arborist Association, Wooster, was in charge of the board made up of the day's speakers, who were Prof. D. C. Kiplinger, department of horticulture, Ohio State University; Norman Armstrong, arborist, White Plains, N. Y.; Prof. Theodore F. Mathieu, school of arboriculture, University of Massachusetts, Amherst; Richard Miller, Boulevard Gardens, Columbus, O.; Dr. George S. Langford, department of entomology, University of Maryland, College Park; R. R. Hart, New York State College of Forestry, Syracuse, and Dr. Forrest C. Strong, department of botany, Michigan State College, East Lansing.

The first questions concerned the possibility of injury to trees from salt put on highways to melt snow in the winter. If it is put on while snow is frozen the salt will probably wash off before injury is done. Du Pont has made a preparation which will neutralize the ill effects of salt. This has been used in Holland.

Most of the questions concerned insect and disease control. Several broods and insect species attack oaks all during summer. June and July are the best months to control them. Holly leaf miner produces only one brood a year but makes two punctures in the leaf. One is a feeding puncture, and the other is an egg puncture. Holly leaf miner can be controlled by applying DDT in the spring as the adults emerge. The oak leaf miner feeds between the leaf surfaces and the pupae fall on the ground.

By using fifty per cent wettable DDT an eighty to ninety-five per cent control of euonymus scale can be obtained. One and one-half pounds of twenty-five per cent Parathion per 100 gallons of water applied on May 15 gave ninety-six per cent control. Four gallons of nursery Volk per 100 gallons of water gave ninety-five per cent control. The scale can be controlled by regular sprays in the dormant or crawler stages.

There is no new control for the Dutch elm disease, and Dr. Tilford stated that Dutch elm disease sprays are still in the experimental stage.

A better control of juniper scale than lime-sulphur is one and one-half pounds of twenty-five per cent Parathion per 100 gallons of water sprayed in mid-May.

For the control of borers on rough-barked trees washes of chlorinated sprays or two and one-half pounds of fifty per cent DDT in five gallons of water were recommended. This may be used on dogwoods and lilacs. The old remedy of putting carbon bisulphide in the holes and sealing them up can be used.

To control cottony maple scale, use oil sprays of DDT in the summer on the underside of the leaves. Nicotine and DDT were tried at the Cole Nursery Co. and would have worked well but for mechanical difficulties with the sprayer.

For the control of soft maple gall (the mite), spray with oil and Parathion or lime-sulphur before the

galls develop. The residual effect of Parathion is about three weeks.

Mites were kept off evergreens for a month or more with Dow C-954. Dinitroaerthane also may be used. If Vaportone and Parathion are used, use two applications.

In the summer transplanting of trees the antidesiccants should be applied about ten days before being transplanted to slow down the growth functions. The cost is rather high. One gallon will make two gallons of spray. It takes three gallons of the spray to cover a 20-foot spruce.

Ornamental Trees.

The evening session was devoted to a panel discussion of ornamental trees for which Edward H. Scanlon, commissioner, division of shade trees, Cleveland, was discussion leader. Others on the panel were Dr. L. C. Chadwick; Carl Fenner, city forester, East Lansing, Mich.; J. C. Kenealy, Lower Marion township shade tree commission, Ardmore, Pa., and J. A. Sweeney, city forester, Toledo.

SPRING, 1950, WHOLESALE PRICE LIST

Rooted Evergreen Cuttings

FIELD FRAMES	Per 100	POTS—Continued	Per 100
<i>Juniperus Hetzi Glauca</i>		<i>Taxus Capitata</i>	
1000 8 to 10 ins., 3-yr.....	\$27.50	2000 6 to 8 ins., pots.....	\$25.00
2000 8 to 10 ins., 2-yr.....	25.00	<i>Taxus Media Hicksi</i>	
<i>Juniperus Hor. Pl. (Andorra)</i>		4000 6 to 8 ins., pots.....	25.00
4000 8 to 10 ins., 2-yr.....	20.00	1000 8 to 10 ins., pots.....	27.50
<i>Thuja Occ. Globosa</i>		<i>Juniperus Chin. Pfitzeriana</i>	
2000 6 to 8 ins., 3-yr.....	22.50	4000 6 to 8 ins., pots.....	20.00
4000 6 to 8 ins., 2-yr.....	20.00	400 dwarf, pots.....	30.00
<i>Thuja Occ. Pyramidalis</i>			
2000 6 to 8 ins., 2-yr.....	22.50		
		Terms: NET CASH WITH ORDER; PACKING FREE	
POTS	Per 100	Orders will be filled in turn as received while our stocks last, subject to conditions beyond our control.	
<i>Juniperus Hetzi Glauca</i>		An order for 25 of the same variety and size sold at the 100 rate.	
4000 6 to 8 ins., pots.....	\$25.00	Minimum order, 100 plants.	
<i>Juniperus Hor. Pl. (Andorra)</i>		We would welcome your inspection.	
4000 6 to 8 ins., pots.....	20.00	Location is 18 miles west of Chicago on Alternate U. S. 30.	
<i>Taxus Cuspidata</i>			
4000 6 to 8 ins., pots.....	25.00		
2000 4 to 6 ins., pots.....	22.50		

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Mr. Scanlon suggested learning more about some of the lesser-used trees and their use as street trees. He gave *Sophora japonica* as an example of a good street tree that is seldom used.

Lantern slides were shown as the following trees were discussed.

Quercus robur fastigiata, upright English oak, does not suffer winter injury, although there is a tendency for the branches to pull apart under a snow load. A horizontal, short-branched variety was seen at Cincinnati which is not affected by the weight of the snow. It has a little mildew but not enough to become objectionable. It holds its leaves until March. Propagation is by budding onto the species.

Ulmus carpinifolia sarniensis, Wheatley elm, is a compact upright form that is apparently susceptible to all elm ills except phloem necrosis. It does not suffer winter injury, but is attacked by borers.

Sassafras albidum was generally considered a fine tree. It is difficult to move, but it can be moved. It has good color, good strength, good shape, is disease free and smoke tolerant. Mr. Kenealy found it susceptible to Japanese beetles. Dr. Chadwick pointed out that it can grow as large as forty-two inches in diameter.

Liquidambar styraciflua, sweet gum, was considered a desirable tree, although its fruiting is objectionable. The problem in using it as a street tree is how to plant it bare root. A trial is being made in keeping it in peat moss from fall to spring to develop abundant root systems. This species should be planted in the spring; it responds well to good soil. Scale, saddlebacks and phytophthora canker have been seen on this tree.

Acer rubrum, red maple, is a tree that is interesting all season long, transplants easily and has no insect pests except some scale insects. Mr. Fenner finds that in Michigan it does well in sandy soil but not in heavier soils.

Acer saccharum, sugar maple, is one of the best varieties, with a good fall color.

Ostrya virginiana, hop hornbeam, has attractive catkins in early spring before most other plants become attractive. It is a possibility for a street tree for narrow streets. It is easily transplanted and slow-growing.

Tilia cordata, littleleaf linden, holds up well in drought conditions. It is subject to aphid on the underside of the leaf.

Maachia amurensis was mentioned

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500 Red Crape Myrtle, 12 to 18 ins..... \$0.15
1000 Red Crape Myrtle, 18 to 24 ins..... .20
500 Red Crape Myrtle, 2 to 3 ft..... .25

Per 1000

5000 White-flowering Dogwood, 6 to 12 ins..... \$25.00
5000 White-flowering Dogwood, 12 to 18 ins..... 40.00
5000 White-flowering Dogwood, 18 to 24 ins..... 60.00
50,000 Hall's Japanese Honeysuckle, L.O. div..... 7.00
5000 Hall's Japanese Honeysuckle, 1-yr. T., No. 3..... 25.00
5000 Calycanthus Floridus, S., 6 to 12 ins..... 20.00
5000 Calycanthus Floridus, S., 12 to 18 ins..... 40.00
5000 Calycanthus Floridus, S., 18 to 24 ins..... 60.00

3 per cent discount when cash accompanies order.

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	Per 10	Per 100	Per 1000
2-year, No. 1.....	\$5.50	\$50.00	\$45.00
2-year, No. 1½.....	4.50	40.00

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Etoile de Hollande
Glowing Carmine
Grenoble
Grass an Tepitz
Red Radiance

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Dame Edith Helen
Edith Nellie Perkins
Editor McFarland
Mrs. Charles Bell
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Radiance

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Julien Potin
(Golden Pernet)
McGredy's Yellow
Mrs. E. P. Thom
Mrs. Pierre S. du Pont
Sister Therese
(Sœur Therese)
Souv. de Claudius Pernet

TWO-TONE SHADES

Autumn
Condesa de Sastago
Duquesa de Penaranda
Edith Nellie Perkins
Heinrich Wentland
Mrs. Joseph Ferrand
Mrs. Sam McGredy
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Talisman

WHITE SHADES

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Frau Karl Druschki
(Hybrid Perpetual)
Kaiserin Auguste Viktoria
Mme. Jules Bouche

FLORIBUNDA and POLYANTHA ROSES

Elsie Poulsen
Golden Salmon
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60	24 to 30 ins., B&B
290	18 to 24 ins., B&B
220	12 to 18 ins., B&B
400	9 to 12 ins., TT
350	6 to 9 ins., TT
200	6 to 9 ins., T

All heavy, first-class plants. Will make an attractive price on the entire lot.

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Pear, 2 and 3-yr.
Cherry, 1 and 2-yr.
Plum, 1 and 2-yr.
Apricot, 1 and 2-yr.
Peach, 1-yr.

Thurlof Weeping Willow,
5 to 6 ft., up to 2-in.

Lombardy Poplar, 5 to 6 ft., up to 2-in.

Arborvitae, Pyramidal; Juniperus columnaris, glauca, keteleeri, Hill's Dundee, up to 3½ to 4 ft. Pfitzer Juniper, 15 to 18 and 18 to 24 ins. Austrian and Scotch Pine, heavily sheared, 4 to 5, 5 to 6 and 6 to 7 ft.

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Malus, in variety, 6 to 10 ft.
True Regel Privet, 1½ to 3 ft.
Euonymus Alatus, 2 to 6 ft.

FAULK-WHITE CO., Inc.
Landscape Contractors
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Catalpa bungei

(Umbrella tree)

	Each
590 3 to 4 ft.....	\$0.85
75 4 to 5 ft.....	.95
618 5 to 6 ft.....	1.15

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AMERICAN NURSERYMAN

as a good tree and is related to the yellowwood. It needs good soil.

Crataegus oxyacantha pauli, Paul's Scarlet hawthorn, needs continued spraying to make it retain its leaves. It was pointed out as a street tree in European countries. Dr. Chadwick said that it had nothing to recommend it but its flowers.

Nyssa sylvatica, black tupelo or sour gum, is a good, beautiful, clean tree but difficult to transplant. It is attacked by a scale, but is easy to clean up.

Zelkova serrata, Japanese zelkova, was criticized as crotching the first year from seeds, but this may be corrected by pruning.

The purple beech and other beeches were suggested as varieties that should be used more.

Ginkgo biloba was suggested as a street tree if careful selection is made to insure a compact tree.

A variety of Gleditsia triacanthos, moraine locust, was pointed out as the new tree produced by the Siebenthaler Co. and a good tree. It is a better shaped tree than the species, holds its leaves two weeks longer and is a clean tree. The form is the nearest to the American elm of any tree commonly grown.

E. J. and C. D.

PLANT NOTES.

[Continued from page 20.]

the luxuriant clumps of foliage, which are a season-long attraction, nor generously filled tall scapes. When established, the plant should be left strictly alone, except for feeding with top-dressings of old manure and an occasional stimulant in the form of a complete fertilizer. The more hostas I see, the more I am convinced that most complaints about hostas can be traced to insufficient feeding after the plants have been in one spot for two or three years. Hosta is usually propagated by dividing the clumps, though it may be grown from seeds, when available. It then requires about three years to reach good blooming size.

Baptisia Leucophaea.

It had been several years since I had seen Baptisia leucophaea until I came upon it in a southern Ohio garden last spring, planted in a broad mass in a southward-facing wall. It made such an entrancing picture that I made a note then to give it a word of praise in this column, but it escaped my attention until last week when a correspondent asked about it, and it all came back to mind.

The group of legumes of the east-



Growers of a complete
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coniferous species.

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	Each per 100	Each per 1000
1000 <i>Ilex Cr. Convexa</i> , 2-yr., 2 1/4-in. pots..	\$0.25	\$0.22
500 <i>Ilex Cr. Convexa</i> , 3-yr., 6 to 8 ins....	.40	.35
1000 <i>Ilex Cr. Convexa</i> , 3-yr., 8 to 10 ins....	.50	.45
1000 <i>Ilex Cr. Convexa</i> , 3-yr., 10 to 15 ins....	.65	.55
1500 <i>Ilex Cr. Rotundifolia</i> , 3-yr., 8 to 10 ins....	.45	.40
1000 <i>Ilex Cr. Rotundifolia</i> , 3-yr., 10 to 12 ins....	.55	.50
1000 <i>Ilex Glabra</i> , 3-yr., 8 to 10 ins....	.50	.45
1000 <i>Ilex Glabra</i> , 3-yr., 10 to 12 ins....	.55	.50
1500 <i>Ilex Opaca</i> , seedlings, 3-yr., 12 to 15 ins....	.45	.40
500 <i>Hemlock, Canadian</i> , 6-yr., 10 to 15 ins....	.50	.45

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RHUS COTINUS

3 to 6-in. seedlings.
\$6.00 per 100.

NEWPORT NURSERY CO.
NEWPORT, MICH.

ern United States which is known to botanists as baptisia contains several interesting plants, one of which, the handsome *B. australis*, is known to most commercial plant growers. Another, *B. tinctoria*, was used by our forefathers as a source of dye, a phase of plant culture now unfortunately taken over by the chemist and his synthetic products.

Still another species, *B. leuco-phaea*, or *B. bracteata*, from the dry prairies of the middle west, is waiting for garden makers to take it in and give it a dry, sunny spot where it can settle down to years of happiness and merrymaking. In the meantime it will be making its owner happy by generous production of its one-sided racemes of cream-colored flowers during May. During the rest of the year, it will decorate its home with the usual handsome baptisia foliage. Parenthetically, have you yet learned the value of baptisia foliage in floral work? If you do floral work in connection with your nursery trade, as more and more neighborhood nurserymen are doing by adding cut flowers and floral designing to their line, you should investigate baptisia.

Its branches are up to eighteen inches in length, but its lax spreading habit of growth often means a plant not over a foot tall. That will suggest a number of uses to the wise gardener, in the rock garden as well as in the sunny border. Grow it from seeds, sown in spring or autumn, soaking the seeds about twenty-four hours in warm water if they are planted indoors in spring.

Viola Bowles' Black.

I am reminded nearly every year of one of the delightful mysteries of the garden when plants of *Viola Bowles' Black*, or *V. nigra*, if you insist on being scientific, appear in sections where they have never been planted by hand. In fact, they have not been planted by the hand of the gardener for all of fifteen years, yet this variety continues to make an occasional appearance in its original blackness. *V. Bowles' Black* is mysterious, so far as I can find out, in its origin and in how it maintains itself quite unspotted, even in the midst of others of its kind who are not too careful of their conduct.

There are some people, to be sure, who report less favorably on the plant's morals, saying that it may do more than cast amorous glances at near-by pansies. But during its years in this garden, this violet has maintained itself, sometimes in increasing numbers and always, so far as the eye can see, in its original deep black

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We are pleased to offer the following list of good specimen shrubs either for immediate shipment or later in the spring. Smaller grades can also be furnished in most of the varieties offered. Per 100

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350 <i>Cornus Alba Sibirica</i> , 3 to 4 ft.....	35.00
300 <i>Euonymus Atro.</i> (Wahoo), 18 to 24 ins.....	30.00
150 <i>Elder, Golden</i> , 4 to 5 ft.....	40.00
200 <i>Forsythia Suspensa</i> , 2 to 3 ft.....	25.00
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250 <i>Phila. Coronarius</i> , 3 to 4 ft..	40.00
400 <i>Phila. Grandiflorus</i> , 2 to 3 ft..	30.00
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250 <i>Physocarpus Opul.</i> , 4 to 5 ft.	35.00
100 <i>Physocarpus Aurea</i> , 4 to 5 ft.....	50.00
200 <i>Ribes Alpinum</i> , 24 to 30 ins.	65.00
500 <i>Snowberry, Red</i> (Vulg.), 2 to 3 ft.....	20.00
400 <i>Spiraea Bumalda</i> (pink), 15 to 18 ins.....	18.00
400 <i>Spiraea Billiardi</i> , 2 to 3 ft..	25.00
700 <i>Spiraea Froebeli</i> , 18 to 24 ins.....	22.50
500 <i>Spiraea Thunbergi</i> , 2 to 3 ft.....	30.00
2500 <i>Spiraea Vanhouttei</i> , 2 to 3 ft.....	18.00
500 <i>Spiraea Vanhouttei</i> , 3 to 4 ft.....	25.00
500 <i>Viburnum Opulus</i> , 2 to 3 ft..	40.00
200 <i>Willow, French Pussy</i> , 3 to 4 ft.....	30.00
200 <i>Willow, French Pussy</i> , 4 to 5 ft.....	40.00

Write for complete wholesale trade list.

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1 and 2 yr., in frames.

Most varieties,

\$20.00 per 100

\$180.00 per 1000

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Wholesale growers of the best
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Deciduous Trees
Shrubs and Roses
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ORDER NOW

CHERRY, Montmorency,		
Early Richmond.	Per	Per
2-yr.-old.	100	1000
1-in. up, 5 ft.	\$75.00
11/16 to 1-in., 4 1/2 ft.	65.00
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12 to 18 ins.,		
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Branched, 5 to 6 ft.	15.00
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PURPLE LEAF PLUM,		
Newport.		
3 to 4 ft., branched.	50.00
PLUM,		
Sapa, Opata, Gold,		
Red June, Abundance.		
9/16 to 11/16-in.,		
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Perfection, Superb.		
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7/16 to 9/16-in.,		
3 1/2 ft.	35.00
5/16 to 7/16-in., 3 ft.	25.00
FLOWERING PEACH,		
Double red.		
5 to 6 ft., branched.	65.00
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EVERGREENS, SHRUB LINERS.
RARE ITEMS YOU DO NOT
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HILLTOP NURSERIES
CASHTOWN, OHIO

garb. Anyway, it is a most pleasant little companion for the not-too-careful gardener, delighting one from spring until autumn with saucy little black faces with coquetish yellow eyes. All of which may be a round-about way of saying it, but it is a sincere effort to tell every neighborhood grower that this violet holds great sales possibilities.

Stokes' Aster.

Stokes' aster, *Stokesia laevis*, has had a checkered career since it was introduced to English gardens by James Gordon, a noted English nurseryman, from South Carolina, about 1766. It earned the reputation in England of being tender to cold, news of which was spread by Johnson, when he wrote that it is "a half-hardy evergreen, requiring a little protection in winter." The refrain was taken up later by William Robinson, in his book called "Hardy Flowers" in which he wrote: "The plant does poorly in cold soils and positions, but grown in pots it flowers very well in a cold house or conservatory in autumn." If Robinson meant by "cold soils" a poorly drained one, that probably holds the clue to the supposition that it is tender to cold, for, though the early florists said it was found growing on wet pine barrens, it has been established under experiments in the north that it cannot stand excess moisture in the winter. In fact, experience shows that it is best and most permanent in this section in the naturally light soil of our gardens, especially if given some humus, preferably rotted manure.

It could be, however, that part of its reputation for tenderness to cold may be traced to material from different parts of its range. Thus, plants from South Carolina would no doubt be harder than those from Louisiana. It is true that its range is rather restricted, for it occurs only, according to the florists available at the moment, in South Carolina, Georgia and Louisiana. Be that as it may, the material, including the new variety Blue Moon, now in gardens is quite hardy this far north when given a well drained soil.

Considering the size of modern varieties, it is astonishing to read the early collectors' talk about the flower heads being only an inch across. That might have been true of wildings growing in the poor soil of southern pine barrens, but they must have quickly shown their appreciation of the gardener's care, for the first one I ever saw in gardens was at least three inches across, while modern kinds, like Blue Moon and the new

EVERGREENS SHRUBS

Specimen finished stock. Well spaced in nursery row and sheared. Beautiful plants. Ideal for salesgrounds or landscape. Come and inspect this stock if interested. Prices on request.

Arborvitae, Globosa, 18 to 24 ins.

Arborvitae, Globosa, 2 to 2 1/2 ft.

Biota Aurea Nana, 18 to 24 ins.

Cotoneaster Divaricata, 3 to 4 ft.

Juniperus Chinensis Columnaris,

5 to 6 ft.

Juniperus Chinensis Columnaris,

6 to 7 ft.

Juniperus Depressa Plumosa,

3 to 3 1/2-ft. spr.

Juniperus, Irish, 4 to 5 ft.

Juniperus Virg. Hilli, 6 to 7 ft.

Juniperus Virg. Keteleeri, 5 to 6 ft.

Mahonia Aquifolium, 18 to 24 ins.

Mahonia Aquifolium, 2 to 2 1/2 ft.

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100 to 500 Orders, Each:
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100 Orders and Less, Each:
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Order in groups of 10; we do not break bundles.

TERMS: Cash with order, no charge for packing; or 25% balance C.O.D. Place your order today from this ad—Delivery now or spring.

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Pink Radiance
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THORNLESS HONEY LOCUST

	Per 10	Per 100
6 to 8 ft.....	\$15.00	\$135.00
8 to 10 ft.....	17.50	150.00
1¼ to 1½-in. cal....	22.50	200.00

HACKBERRY, OCCIDENTALIS

6 to 8 ft.....	12.50	100.00
8 to 10 ft.....	15.00	135.00
1¼ to 1½-in. cal....	20.00	175.00

Free packing. Cash, please.

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EVERGREENS SHRUBS SHADE TREES POPLARS

5000 Juniperus Pfitzeriana, 2¼-in. rose pots. Now growing in greenhouse.

\$22.50 per 100; \$200.00 per 1000.

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WELLER'S PERENNIALS

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HARDY MUMS AND PHLOX.

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AMERICA'S BEST SOURCE FOR

HARDY PLANTS

WRITE FOR
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MENTOR,
OHIO

Wayside Gardens

Blue Danube, are normally five inches across.

For the benefit of growers who do not yet know the two moderns mentioned, it may be said that Blue Moon is a silvery light blue with the center crest carrying a pale lilac tinge, while Blue Danube is a deeper blue, and the flower, lacking some of the crest of the other, is flatter. Both are splendid garden plants, blooming from midsummer onward, and are excellent for cutting. In the latter connection, Meehan, writing in 1879, quoted from the London Garden as follows: "This plant has this autumn furnished the chief supply of blue flowers brought to Covent Garden market in a cut state. They first made their appearance early in September, and were to be seen in the florists' shops until late in November. Those who desire a really good autumn flower would do well to grow this. The blue, aster-like flowers are very large and showy, and are borne on the end of every branchlet, each bloom being about three and one-half inches in diameter, and apparently semidouble. In its late-blooming property consists its chief value, for late-flowering, hardy, really good plants are scarce."

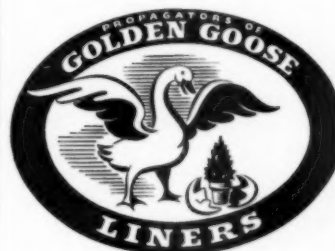
There are other interesting phases of the plant, such as its treatment by the systematic botanists who have placed it in the tubuliflorae section of the composites because the lower portion of the corolla is tubular. However, the strapped-shaped upper portion would indicate to you and me that we should probably find it in the liguliflorae section. The varying height of the flowering stem as given by different authorities may be puzzling to the inquirer who finds all his plants of uniform height. I know no explanation of the discrepancy between the foot reported by one writer and the two feet of another, when all the plants that I have measured have been from twelve to eighteen inches tall.

FORMAL opening of Glenoaks Nursery, Woodward, Okla., owned and operated by H. M. ("Jimmy") Gray, took place January 25. The nursery, which will specialize in landscaping and in roses, shrubs and evergreens, is located at 1302 Main street.

SO THAT Marshall, Tex., will gain fame throughout the country as the Wistaria city, the town has gone all-out for a wistaria campaign, which included the free presentation of approximately 300 such plants by local merchants last month to early shoppers.

BROAD-LEAVED EVERGREENS

For immediate delivery
or for reservation.



All quotations are for beautiful lining-out stock, ready for the field, from 2¼-in. pots, 1 and 2 years old.

See our Classified ad under Evergreens in this issue.

Watch your profits grow with GOLDEN GOOSE LINERS

Pay off the mortgage, build your greenhouse, get the saddle horse for your children and plan that trip to Yellowstone Park. I have.

HERE IS HOW, FAIR AND SIMPLE.

One Factual Example: With a shiny-leaved hybrid American holly called Ilex Opaca East Palatka.

1944—April. Planted (while on 15-day leave from 124th Cavalry) 1100 East Palatka on eight and one-half rows, 400 feet long.

1945—No Sale. (Still in the army.)

1946—October. Plants compact, 3 to 4 ft. and well berried. Price, \$5.00 and \$6.50 each. Sixty per cent sold that season.

1947—October. Plants averaged 6 ft. after shearing once. Price, \$8.00 and \$10.00 each. 150 left at end of season.

1948—Plants 8-ft. specimens. Price, \$15.00 and \$18.00 each.

1949—4 plants left in patch, 10 to 12 ft., sold for \$35.00 each.

Similar experiences are being enjoyed with the smaller types of hollies and other broad-leaved evergreens offered to you as liners.

The day of \$2.00 and \$3.00 Arborvitae and regular Junipers is passing. We now grow just enough of them to get propagating wood to supply other nursery customers with liners. Grow some, yes. For as long as F.H.A. accepts eight "plants" at \$50.00 for the housing projects, there will be a demand.

If you are not already growing the better broad-leaved landscape material, give it a try, and prove to yourself that Golden Goose Liners can do for you the same thing they are doing for me.

Signed

Oliver Anderson, Owner

EVERGREEN NURSERIES
GERMANTOWN, TENN.

Landscape Clinic

The second day of the twenty-first annual short course for arborists, landscape gardeners and nurserymen held January 23 to 25 at the Neil House, Columbus, was the landscape men's day, most of the day being devoted to talks from experts in this field, which were reported in the February 15 issue.

The speakers of the day formed the board of experts for the clinic and included Prof. Victor H. Ries, department of horticulture, Ohio State University; Harold W. Glissman, superintendent of grounds, Father Flanagan's boys' home, Boys' Town, Neb.; Henry T. Skinner, Morris Arboretum, Philadelphia; Carl Ray, head of Carl Ray Co., St. Matthews, Ky., and Prof. L. R. Quinlan, department of horticulture, Kansas State College, Manhattan.

The discussion at the clinic which followed the speakers' program brought out the following points: The use of hedges in much of the work described in Bottomley's "New Designs for Small Homes" may increase the cost of maintenance, but it is the cheapest method of obtaining the desired effect.

The box-type house does not require heavy material, but larger plants should be used to screen off more. Upright plants are possible with the box-type house, but should only be used in massed plantings.

Deciduous azaleas may be used with evergreens in landscaping but not in large quantities.

Large trees can be used to back up a ranch-type house, but trees such as pin oaks, beeches, etc., should be used, since they branch close to the ground.

The U-3 Bermuda grass is new, and the sources of supply are limited, but Mr. Linklocal, of Clayton, Mo., has some available. This grass must be fed heavily, cut short, about three-fourths to one-half inch, and used only in ample sun. Zoysia japonica can be used either in sun or shade and can be cut two inches long. It is probable that U-3 Bermuda is a sport of the southern strain of Bermuda. It is hardy, does not produce seeds and looks good in summer, but is brown in the winter. If a green color is desired after a killing frost, it is suggested that B-27 bluegrass be planted with the U-3 Bermuda. Perennial rye is of value also with the U-3 Bermuda. Control of time of fertilizing is of importance in using U-3 Bermuda with bluegrass, but Mr. Glissman suggests experimentation

with it to determine the best time. He used a mixture of fifty per cent Alta fescue, forty per cent Kentucky bluegrass and ten per cent Highland bent to seed the football field at Boys' Town.

Fall is the best time for seeding Alta fescue, while U-3 Bermuda and zoysia should be planted in May or June. Zoysia tenuifolia is hardy in the south of Florida only. Zoysia matrella is evergreen in the south. Zoysia is best for lawns in summer, but looks bad in the winter. Creeping red fescue is preferred over other fescues in Nebraska.

The kind of fertilizer used on a lawn is not important if used intelligently, but fall application is preferred to spring application. Organic fertilizers can be used any time in the fall, but when the ground is frozen is a preferred time for fertilizing. At Boys' Town animal manures are used. The manures are obtained in such a manner that weeds are not troublesome, and the manure is chopped and scattered by dragging a door mat over the lawn. The manures are leached for one season.

New grass seedings should not be

fertilized for three or four months after seeding. There is no objection to mixing seeds with certain fertilizers to lower the seeding rates when low rates are desired.

The final questions of the clinic were directed to Mr. Skinner and concerned azaleas, rhododendrons and kalmias. The Goebel hybrid azaleas he considered variable as to hardiness, though the early ones are usually hardy. He suggests finding the parentage to determine whether or not they are hardy in your section. The Kurumes have some spectacular colors.

Cunningham's white rhododendron is a dwarf variety which roots easily and makes good understock. It grows to about four feet high. There are some other dwarf varieties such as racemosum and carolinianum that are good. Boule de Neige is a hardy white hybrid.

There are some good varieties of mountain laurel, but they can be propagated only by grafting and will not be important, he thought.

New or Preferred Varieties.

Harry T. Skinner was the speaker for the evening session on "Some New or Preferred Varieties of Trees and Shrubs." He prefaced his illustrated lecture by urging that land-

QUALITY JUNIPER GRAFTS

For Spring, 1950, delivery, from 2 1/2 in. pots on Virginiana understock.

We are grafting *Juniperus virginiana canaerti*, *glauca*, *pyramidiformis* (Dun-dee), *burki* and *keteleeri*, etc.

PAUL ARTERBURN NURSERY

BOX 72 ST. MATTHEWS, KY.

SERVING YOU SINCE '72
FROM
THE CENTER OF THE SOUTH

THE *Southern* Est. 1872
Nursery & Landscape Co., Inc.
WINCHESTER, TENNESSEE
Phone-Write-Wire for Quotations

50,000 DAHLIA ROOTS

We grow many acres of standard cut flower varieties for the trade.

Write today for wholesale price list.

PAYNE DAHLIA FARMS
ROUTE 5 KANSAS CITY 3, KAN.

NORTHERN STOCK

500 at 1000 rate. Cash, or satisfactory references. Per Per

2-yr. Seedlings 100 1000

American Arborvitae,

2 to 4 ins. \$3.00 \$25.00

Black Hills Spruce,

2 to 3 ins. 2.50 20.00

Colorado Blue Spruce,

2 to 4 ins. 3.00 25.00

Norway Spruce, 2 to 4 ins. 3.00 25.00

Scotch Pine, 3 to 6 ins. 2.50 20.00

White Pine, 3 to 6 ins. 3.00 25.00

Mugho Pine, 2 to 4 ins.

We believe this to be a

true dwarf type. 3.00 25.00

5000 or more. 20.00

Balsam Fir, 2 to 3 ins. 2.50 20.00

Platte River Red Cedar,

1-yr., 2 to 4 ins., average

3-ins. 2.50 20.00

Write for prices on 10,000 or over.

J. R. PALMER & SON BLACKDUCK, MINN.

We Offer

FOR SPRING AND FALL

An extra-fine lot of
Peach — Plum — Grape — Apricot
Cherry, Sweet and Sour

Can furnish carloads.

Also Shrubs, Evergreens and Shade Trees.

Send us your want list.

COMMERCIAL NURSERY CO.
Nicholson Bros. DECHERD, TENN.

WE OFFER FOR SPRING NATIVE SHRUBS, SHADE TREES and EVERGREENS

Azalea Calendulacea.		
Azalea Nudiflora.	Per 100	Per 1000
12 to 18 ins., liners....	\$ 7.00	\$60.00
12 to 18 ins., br.....	10.00	90.00
	Each	
18 to 24 ins., br., B&B.....	\$0.80	
2 to 3 ft., br., B&B.....	1.00	
Acer Rubrum.		
Acer Saccharum.		
Cornus Florida.		
Tilia Americana.		
Liriodendron Tulipifera.		
Quercus Alba. White Oak.		
Quercus Phellos. Willow Oak.		
Quercus Rubra. Red Oak.		
3 to 4 ft., br.....	\$0.20	
4 to 5 ft., br.....	.30	
5 to 6 ft., br.....	.40	
Rhododendron Maximum.		
Kalmia Latifolia.		
Ilex Opaca.	Per 100	Per 1000
3 to 6 ins., s.....	\$2.00	\$15.00
6 to 9 ins., s.....	3.00	25.00
9 to 12 ins., s.....	4.00	35.00
12 to 18 ins., s.....	5.00	45.00
18 to 24 ins., s.....	6.50	60.00
Tsuga Canadensis.		
3 to 6 ins., s.....	.75	6.00
6 to 9 ins., s.....	1.50	10.00
9 to 12 ins., s.....	2.50	20.00
12 to 18 ins., s.....	4.00	35.00
18 to 24 ins., s.....	6.00	55.00

CUMBERLAND PLATEAU NURSERY
YORK ROUTE CROSSVILLE, TENN.

HERE IS YOUR CHANCE TO MAKE A PROFIT ON NATIVE AZALEAS

AZALEA CALENDULACEA. Flame Azalea
AZALEA NUDIFLORA. Pinxter Bloom
18 to 30 ins., B&B, 65¢ each.

The above plants will be well branched and will have plenty of bloom buds. We offer these in truckload lots at this price at our place, or we will deliver at 12¢ per mile, both ways.

Never before have we offered such a bargain.

O. H. PERRY NURSERY CO.

Telephone: 375-X

BOX 545 McMinnville, Tenn.

WE OFFER IN QUANTITY

Abelia Grandiflora. 6 to 12 ins.; 12 to 18 ins., b.r.; 18 to 24 ins., b.r.; 2 to 3 ft., b.r.

White-flowering Dogwood, Amur River South Privet and Calycanthus, seedlings, 6 to 12 ins.; 12 to 18 ins.; 18 to 24 ins.

White Walnut, seedlings, 12 to 18 ins.; 18 to 24 ins.; 2 to 3 ft.; 3 to 4 ft.

Red Cedar, transplants, and **Flowering Shrubs.**

Write for price list.

THE ARNOLD C. CLARK NURSERY

Phone: D 722

ROUTE 2 McMinnville, Tenn.

30,000 Potted Taxus Liners

1, 2 and 3-year.

Weigela Eva Rathke, transplants.
Viburnum Rhytidophyllum.

HUMPHREYS LANDSCAPE SERVICE
MT. STERLING, KY.

scape plantings be more than just settings for houses. Interesting plants should be introduced into the landscape. For a plant to be interesting, Mr. Skinner thinks that color is necessary.

Illustrations of the following plants were shown as they were discussed:

Acer buergerianum, highland maple, is a good street tree which sets few seeds, has gray stems and a yellow fall color and holds its leaves late.

Acer palmatum has several interesting varieties. The cutleaf forms help to lighten the landscape early in the year. Several golden and variegated forms of acer were shown, such as *pseudoplatinus worleei*, *rubrum drummondii*, a japonicum with a palmatum color contrast and japonicum aureum variegatum.

Aesculus parviflora, bottlebush buckeye, flowers in midsummer. It often becomes covered with scale. When this happens, cut it to the ground and let it grow back again.

Aesculus carnea is a pink-blooming form of horse chestnut which comes true from seeds. It is not so tall as the European horse chestnut.

An *Aesculus glabra* which suffered no sunscald while neighboring trees did was shown. It comes true from seeds.

Albizia julibrissin, mimosa, stands city conditions well, but is becoming diseased in many places.

Amelanchier laevis, shadbush, may be used as a street tree, but *Amelanchier grandiflora* is better.

Amorpha canescens, lead plant, is hardy and stands dry conditions. It has a blue flower in the summer and gray foliage. It should be cut to the ground every spring.

Cedrus libani, cedar of Lebanon, is the hardiest of the cedars.

Buddleia alternifolia is different from *B. davidi*, growing six to eight feet tall, but it does not kill to the ground.

Buxus in the Philadelphia area is mostly killed out as a result of nematodes on the roots. Parathion sprinkled on the ground and watered in gives control.

Heather is a fine plant where it can be well grown. It needs a well drained acid soil and should be planted on a north slope. It is hardy, but needs shearing.

Clethra alnifolia rosea and *Clethra barbinervis* are hardy semitrees with flaking bark. They are resistant to red spider.

Cercidiphyllum japonica, katsura tree, is hardy and has good fall color.

The *simonsi* variety of *Chaenomeles lagenaria*, Japanese quince, is red,

ORDER NOW

LIGUSTRUM AMURENSE

Per 100 Per 1000

2 to 3 ft., br.....	\$ 6.00	
12 to 18 ins., br.....	4.00	\$37.50
9 to 12 ins., br.....	3.50	27.50
6 to 18 ins., liners....	2.50	20.00

LIGUSTRUM OVALIFOLIUM

3 to 4 ft., br.....	7.50	
2 to 3 ft., br.....	5.50	50.00
6 to 24 ins., liners....	2.00	15.00

LIGUSTRUM IBOLIUM

2 to 3 ft., br.....	5.50	50.00
18 to 24 ins., br.....	4.00	35.00
12 to 18 ins., br.....	3.00	25.00
6 to 18 ins., liners....	2.00	15.00

SPIRAEA VANHOUTTEI

12 to 18 ins., hedge ..	5.00	40.00
6 to 18 ins., liners....	3.00	25.00

CYDONIA JAPONICA. (true red)

6 to 12 ins., liners....	6.00	
--------------------------	------	--

CYTISUS SCOPARIUS (Scotch Broom)

6 to 12 ins., seedlings.	4.00	
3 to 6 ins., seedling.	3.00	25.00

ABELIA GRANDIFLORA

12 to 18 ins., br.....	20.00	
6 to 12 ins., liners....	10.00	

HYDRANGEA P. G.

12 to 18 ins., br.....	20.00	
6 to 12 ins., liners....	10.00	

WEIGELA FLORIBUNDA

2 to 3 ft., br.....	30.00	
18 to 24 ins., br.....	20.00	

WEIGELA ROSEA

18 to 24 ins., br.....	15.00	
6 to 18 ins., liners....	3.50	30.00

CORNUS FLORIDA

Per 10 Per 100

5 to 6 ft., br.....	\$10.00	
4 to 5 ft., br.....	7.50	\$60.00
3 to 4 ft., br.....	4.00	35.00
2 to 3 ft., br.....	2.50	20.00
18 to 24 ins., br.....	1.50	12.00
18 to 24 ins., seedling ..	.75	6.00

ACER RUBRUM (Red Maple)

5 to 6 ft., br.....	6.00	50.00
4 to 5 ft., br.....	5.00	40.00
18 to 24 ins., seedling ..	.75	6.00

ACER DASYCARPUM (Silver Maple)

5 to 6 ft., br.....	5.00	40.00
4 to 5 ft., br.....	4.00	30.00
12 to 18 ins., seedling ..	.50	4.00

CERCIS CANADENSIS

3 to 4 ft., br.....	2.40	20.00
4 to 5 ft., br.....	4.00	35.00
5 to 6 ft., br.....	6.00	50.00

LIRIODENDRON TULIPIFERA

3 to 4 ft., br.....	2.50	20.00
4 to 5 ft., br.....	3.50	30.00
5 to 6 ft., br.....	5.00	40.00
6 to 8 ft., br.....	7.50	60.00
18 to 24 ins., seedling ..	.50	3.00
2 to 3 ft., seedling ..	.75	5.00

LIQUIDAMBAR STYRACIFLUA

4 to 5 ft., br.....	3.50	30.00
5 to 6 ft., br.....	5.00	40.00
12 to 18 ins., seedling ..	.50	4.00
18 to 24 ins., seedling ..	.75	6.00

POPULUS NIGRA ITALICA

2 to 3 ft., whips.....	.60	4.00
3 to 4 ft., whips.....	.75	6.00
4 to 5 ft., whips.....	1.00	8.00

Supply is limited. Order early.

Terms: 5 per cent discount if cash or check is sent with order. Send 25 per cent deposit on C.O.D. orders.

McMINNVILLE TREE CO.

BOX 125 McMinnville, Tenn.

Beautiful NATIVE RED CEDARS

	Per 1000
5 to 10 ins.....	\$20.00
10 to 15 ins.....	35.00
	Per 100
15 to 24 ins.....	\$ 7.50
2 to 3 ft.....	12.50
3 to 4 ft.....	17.50

APPLE and PEACH TREES

	Per 100
2 to 3 ft.....	\$ 8.00
3 to 4 ft.....	12.00
4 to 5 ft., while they last.....	20.00

APPLE TREES	Per 100
5 to 6 ft., while they last.....	\$30.00

GRAPEVINES	Per 1000
Concord, 2-yr., No. 1.....	\$40.00
Fredonia, 2-yr., No. 1.....	50.00

Also other bargains.

Will not be able to supply demand again this season. First come, first served.

Write for our new, very low prices on nursery stock. Big reductions.

ROLLERS NURSERY
Phone: 661 ROGERS, ARK.

HEAVY 2-YR. SHRUBS FRUIT TREES

SPECIMEN EVERGREENS

LINING-OUT STOCK

SNEED NURSERY COMPANY

P. O. Box 798
Oklahoma City 1, Okla.

Write for our complete price list of lining-out stock.

See our classified ad under the heading of Evergreens in this issue.

T. G. OWEN & SON, Inc.
COLUMBUS, MISS.



SEMME'S NURSERIES

AZALEAS - CAMELLIAS
and other choice evergreens.

Wholesale Catalog SEMMES, ALA.

THIS SPACE COSTS \$3.25

for one issue.

Lower rates for longer-term orders.
Send for complete advertising rate schedule.

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

and Clark variety is white. These should always be grown on their own roots.

Cornus florida floribracteata, double-flowered flowering dogwood, goes well with azaleas and has a slightly weeping habit.

Cornus controversa variegata is a yellow foliage plant with horizontal branches and a trunk diameter up to twelve inches.

Cotoneaster horizontalis will make a good cover for a wall if the branches that tend to grow away from the wall are trimmed.

Cotoneaster dammeri and microphylla were shown as ground covers.

Davidia involucrata, dove tree, is not used much, as it is difficult to grow.

Deutzia parviflora is a free-flowering plant five feet high.

Enkianthus perulatus is a white-flowered species.

Euonymus yedoensis was shown badly infested with scale. It is not desirable for that reason.

Euonymus alatus compactus is more resistant to scale and is slow-growing.

Hippophae rhamnoides, sea buckthorn, stands sand well, fruits well, but has separate sexes. The fruits are acid, and birds do not like them.

Ilex opaca, American holly, prefers acid soil, while *Ilex aquifolium* does not. *Ilex decidua* and *sieboldiana* were shown also. *Ilex verticillata* was mentioned as one of the best deciduous hollies.

Juniperus conferta stands shade well. *Juniperus squamata* is a good ground cover. *Juniperus sabina tamariscifolia* is susceptible to attack by juniper blight.

Koeleruteria paniculata is a good accent and park plant, but is short-lived, its age usually no more than 15 years.

Lonicera maacki, or maacki podocarpa, is one of the best fruiting honeysuckles. The fruit is good bird food. It reaches fifteen feet in height.

Salix elegantissima was mentioned as a good weeping willow.

Magnolia kobus borealis is a plant from Japan with creamy-yellow flowers. *Magnolia macrophylla* is not very hardy, but the large leaves add interest.

E. J. and C. D.

THE new mailing address of the Norman Nursery & Flower Shop, Phoenix, Ariz., is P. O. Box 7067.

HAVING engaged in landscape work for a number of years, C. A. Faerber has started a nursery and landscape company at 415 South Van Buren avenue, Kirkwood 22, Mo.

QUALITY STOCK

In Good Quantity

Excelsa Arborvitae,	Each
24 to 30 ins.....	\$1.25
30 to 36 ins.....	1.50
Baker Arborvitae,	
24 to 30 ins.....	1.30
30 to 36 ins.....	1.50
Spiny Greek Juniper,	
15 to 18 ins.....	1.25
Euonymus Radicans	
Coloratus, bare root,	
18 to 24 ins.....	.35
2 to 3 ft.....	.50

Write for list of other stock.

See our classified ads on Amur River South Privet and Quality Evergreen Liners.

VERHALEN NURSERY CO.
SCOTTSVILLE, TEXAS

Your Profits Grow in Verhalen Plants.

BLACKWELL NURSERIES



SEMME'S, ALABAMA

Azaleas, Camellias, Gardenias
and a General Line of
Ornamental Nursery Stock
Lining-Out Stock Our Specialty
WHOLESALE ONLY

CHINESE CHESTNUT TREES

Pure *Castanea mollissima* seedling trees of Peter Lui strains (U. S. D. A.), in quantities and sizes listed.

		Per 100
750	12 to 18 ins.....	\$12.50
5000	18 to 24 ins.....	17.50
5000	2 to 3 ft.....	25.00
200	3 to 4 ft.....	35.00

F.O.B. shipping point.

LEELAND FARMS

P. O. Box 128 Leesburg, Ga.



CAMELLIAS

New low wholesale prices on field-grown, irrigated camellias. Also azaleas, fruit and pecan trees.

WIGHT NURSERIES, CAIRO, GA.

FRUIT TREES

Apple, 1 and 2-yr., Dwarf and Standard

Pear, 1 and 2-yr., Dwarf and Standard

Plum, 1 and 2-yr.

Sweet and Sour Cherry, 1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

Write for our wholesale list.

KELLY BROS. NURSERIES, Inc.
DANSVILLE, N. Y.

NOW OFFERING A COMPLETE LINE OF SMALL FRUIT PLANTS

We will be glad to quote
on your requirements.

**ANDREWS NURSERY
CO.**
FARIBAULT, MINN.

SMALL FRUIT PLANTS

Thirty varieties of Grapes, including the

GOLDEN MUSCAT

also

Currants and Berry plants

FOSTER NURSERY CO., Inc.
FREDONIA, N. Y.

SURPLUS STRAWBERRY PLANTS

Dunlap, Blakemore, Aroma and
Tennessee Beauty
\$7.00 per 1000

Streamliner Everbearing
\$17.50 per 1000

ANNA STRAWBERRY NURSERY
F. G. Anderson, Prop.
ANNA, ILL.

FRUIT TREES

One-year-old Napoleon, Windsor and
Black Tartarian Sweet Cherry Trees.
Please write for quotations.

EDWARD BACON & SON
DANSVILLE, N. Y.

CENTRAL MAIL-ORDER GROUP MEETS.

Thirty-three mail-order nurserymen from the central region of the National Mail Order Nurserymen's Association attended a meeting February 17 at the Elkhart hotel, Elkhart, Ind. Part of the discussion was devoted to postal rate increases before Congress. Again each member was urged to write his congressman and to contact local farm organizations to try to retain the present weight and size limits and rates. Howard Scarff, Vance Beatty and Robert Ackerman estimated that it would require double their present staffs to zone and bill parcel post packages should the proposed amendment be voted.

The "How's Business?" discussion revealed a general consensus that business is not so good as it was last year at this time. One member commented that the mail-order nursery business might be returning to pre-war times when business gradually built up during January, February and March to the peak in April. Many opined that nurserymen would have to make a fine-tooth-comb study of their business to break even and then adjust their sights to carry their volume across their books.

It was reported that Walter Montfort, of the Andrews Nursery Co., Faribault, Minn., was still ill at St. Mary's hospital, Rochester, Minn., and so flowers were ordered sent to him to remind him of the esteem in which he is held by the group.

Vance Beatty, of the R. M. Kellogg Co., Three Rivers, Mich., was appointed to report on applications of the wage-hour law to the nursery business, with particular reference to ruling four, at the next meeting, which was set for March 10 at Plainwell, Mich. Other meetings of the central region are planned for March 31 at St. Joseph, Mich.; April 21 at Richards Gardens, Plainwell, Mich., and May 12 at Benton Harbor, Mich. All meetings begin at 6 p. m. central standard time.

I. J. Mathews, Sec'y.

THE address of Henry Rahl, nurseryman, is now 1875 North Ridge road, Elyria 7, O. It was formerly Route 3.

ASSOCIATED in the nursery business for most of his 34 years, Hugh G. Scott is starting his own business, the Erie Nurseries, on No. 3 highway, at Cottam, Ont., which is twenty-five miles from Detroit and Windsor.

BERRY PLANTS

	Per 100	Per 1000	2500 or more per 1000
Cumberland Raspberry			
No. 1 Tips....	\$3.75	\$30.00	\$25.00
Thornless Boysenberry			
No. 1 Tips....	4.50	40.00	35.00

BLUEBERRIES

	Each	Per 10	Per 100
3-yr., 12 to 18 ins....	\$0.75	\$6.50	\$60.00
4-yr., 18 to 24 ins....	.95	8.50	75.00
Cabot, Concord, Jersey, Rubel, Rancocas.			

STRAWBERRIES

	Per 100	Per 1000
Blakemore	\$1.00	\$ 8.00
New Robinson	1.25	10.00
New Superfection		
Everbearing	3.25	25.00
Streamliner Everbearing.	3.00	22.50

See our ad in the February 15 issue for other items.

Send us your complete Want List for quotations on other items.

WAYNESBORO NURSERIES
WAYNESBORO, VIRGINIA

FRUIT TREES

HARRISON BROTHERS NURSERIES

G. Hale Harrison, General Manager
BERLIN, MARYLAND

WE OFFER... Our General Line of SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

SPECIAL PRICES
on
APPLE, PEACH, CHERRY
L. R. TAYLOR & SONS
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CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

LOS ANGELES MEETING.

The February meeting of the Los Angeles chapter of the California Association of Nurserymen at the Altadena Town and Country Club, Altadena, was devoted to the annual camellia show and was attended by approximately 200 persons. There were many displays of the finest in camellias, both new and standard varieties. The executive secretary of the state association, Elmer Merz, was present and spoke on the remarkable progress of this chapter.

Speaker of the evening was Dr. Walter Lammerts, formerly of the University of California at Los Angeles, and Armstrong Nurseries, Inc., Ontario, where among his achievements as a hybridist was his development of the Charlotte Armstrong rose. At present he is with Descanso Gardens, La Canada, working mainly on camellias, and spoke on the culture of camellias. He then sprang the promised surprise of the evening. He announced the acquisition, with amusing descriptions of the difficulty involved, of twenty varieties of *Camellia reticulata* which would be available in the spring of 1952.

R. E. Weidner, Sec'y.

REDWOOD EMPIRE CHAPTER MEETING.

The seventy-first meeting of the Redwood Empire chapter of the California Association of Nurserymen was held at Rancho Rafael, near Hamilton Field, February 14. There were twenty-five persons present, including one guest.

A letter from Elmer Merz, executive secretary of the state association, was read, calling attention to March 7, which has been officially designated as arbor day in California. In that connection, the president appointed two committees, one in the Santa Rosa region and one in the Marin area, to work out a program of observance in cooperation with various organizations and the school department. Joseph C. Badger, chairman, Henry Martin and Clyde von Grafen were on the northern committee, while Donald Perry, chairman, James E. Egger and Patrick T. Flynn were on the committee in the Marin area.

The next matter of business was the state board of directors' meeting

to be held at Berkeley, April 20. Any subject which a member would like to have put on the agenda should be sent to Elmer Merz or given to the chapter's director. Donald Perry brought up a previously discussed matter of landscape and gardener discounts which might possibly be taken up at the state association board meeting. A motion passed that the director be instructed to place before the board a copy of the resolution adopted by the Redwood Empire chapter at a previous meeting.

A discussion followed on the idea of asking for an increase in nursery license fees to discourage the corner grocery stand which is generally not equipped to handle nursery stock ade-



More STRAWBERRIES The New Pyramid Way

"Sells like hot cakes." Set up and planted in your saleslot with strawberries and flowers, this 6-ft. aluminum pyramid will attract customer interest beyond anything you have tried for a long time. Nationally advertised. Sells for \$7.50 and the profit is good. Drop us a line, and we'll tell you more about this interesting innovation in planting. We'll also include a word about our wholesale and direct-to-customer shipment of Minnesota-grown strawberry plants and Hardy Minnetonka Mums.

Allenore Nursery
Excelsior, Minnesota

GRAPEVINES

Heavy, well rooted.

2-yr. Concord and Niagara.

Hydrangea P.G.

Peach

Write for prices.

Thorne Brewster

WILLOWBEND NURSERY

Davis Rd. Perry, Ohio

STRAWBERRY PLANTS

TOP QUALITY

Prices on request.

CHATTANOOGA PLANT FARM

802 N. Chamberlain Ave. CHATTANOOGA 6, TENN.

AMERICAN NURSERYMAN

quately. The question of making the pinto tag available in Marin county, as well as Sonoma county, was discussed. Most members are in favor of the idea whenever the agricultural commissioner has sufficient help to handle it.

Clyde von Grafen made a few remarks regarding the bad freeze that hit some of the nurseries in the northwest this year. He said that in many instances they lost all their camellias, rhododendrons and daphnes on account of the excessively low temperatures.

A representative of Swift & Co. showed two interesting movies, one giving a history of Swift & Co., and the other showing the life cycles of various insects.

Ernest Munson, Sec'y.

PASADENA CAMELLIA SHOW.

Winner of the cup for the most outstanding flower at the camellia show February 18 and 19 at Brookside park, Pasadena, Calif., was the Armstrong Nurseries, Ontario, for

INTRODUCING Hagerstrom's New Patented (Pat. Pend.) Everbearing Strawberry

(Wayzata x Fairfax)

Large berry, heavy fruiter, good quality and substance, reproduces freely. A great contribution to commercial and home garden strawberry growers.

Sold only under contract and royalty restriction for propagation for sale. A limited number of potted plants available this season.

Historical and descriptive price list upon request.

HILLCREST GARDENS
ALBERT LEA, MINN.

Authorized agent under contract for exclusive potted rights of Hagerstrom's patented strawberry.

Chipman's RED RHUBARB

Large, No. 1 divisions.

The kind you like to get.

\$8.00 per 50; \$36.00 per 300.

Cash with order, packing free.

Packed in wire-bound citrus crates.

24-hour service.

KEELER'S GARDENS

SIOUX FALLS, SOUTH DAKOTA

RASPBERRY PLANTS

RED - BLACK - PURPLE

C. H. BENEDICT

GRAND JUNCTION, MICH.

their entry, Mathotiana. Special awards also went to the noncompetitive exhibits of Nuccio's Nurseries, Altadena, and the Valley Garden Supply Co., North Hollywood.

No blooms were entered in competition for the new seedling named for the motion-picture actress, Ann Miller, which is being introduced by Shepp's Shade Gardens, East Pasadena, but photographs of the flower were exhibited. Marian Conroy, North Hollywood, received the sweepstakes awards for the best flower arrangement.

Some 8,000 visited the show, which was jointly sponsored by the Southern California Camellia Society and the Pacific Camellia Society, to see the professional growers' exhibits and thousands of blooms and camellia arrangements entered by amateurs for awards. There were also educational exhibits by the two sponsors and by Descanso Gardens, La Canada, and the California Institute of Technology.

SUNDAY EDITION FEATURES COATES NURSERIES.

As its Sunday feature for home gardens and orchardists during the bare-root planting season, the San Jose Mercury News described in its edition for February 5 some behind-the-scenes operations at the Leonard Coates Nurseries, Inc., San Jose, Calif. Almost two illustrated pages were devoted to telling the story of the nursery since it was taken over twenty-five years ago by Ray D. Hartman.

Photographic illustrations showed bundled bare-root cherry trees, packaging of rosebushes, flats of prune tree cuttings, the process of dipping leaf cuttings in hormones to stimulate rooting, comparisons of various sizes of evergreens and preparation of landscape plans.

The firm has five nurseries and propagation grounds at which it has over a million and a half individual plants. Headquarters are at San Jose, and the growing for that area is done at another site, on McLaughlin avenue just outside town, which is managed by Elmer Osterman, son of Fred Osterman, who was with the organization for forty-two years. It is devoted to growing rosebushes and shade trees, with a few fruits propagated there as well.

The Morgan Hill nursery, which can be termed the heart of the organization, was where Leonard Coates founded the firm. Some of the original buildings are still in use after forty-six years. The container-

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grown stock comes from here. And 600,000 or more plants are grown in its sprawling lath houses, green-houses and growing beds.

The firm grows nearly all of its fruit stock at the Brentwood nursery, where it now has more than 700,000 young trees lined out in rows in preparation for their sale and shipment. At the Santa Cruz nursery, more than 150,000 shrubs are being grown.

DESCANSO GARDENS OPEN.

The Descanso Gardens, La Canada, Calif., will open March 18 to the public for the first time since they were started ten years ago by the Los Angeles publisher, Manchester Boddy.

The gardens, made up of 165 acres situated in the scenic and secluded San Rafael hills, emphasize the charm and beauty of a natural setting with a stream that runs for almost a mile, forming trout-filled pools and miniature waterfalls along the way. During the 5-month season from November to April, a million camellias of over 500 varieties bloom in the filtered sunlight of acres of virgin live oak forest.

Roses take over the gardens after the camellia season, and found there are such outstanding specimens as the first yellow rose, the York and Lancaster rose which symbolized the end of the historic War of the Roses, almost unknown thorny varieties, the rare green rose and many new varieties.

In preparation for the opening, lounges, walks, an entrance pavilion, benches, bridges, a parking lot and roads have been completed. New lawns have been planted and thousands of camellias, roses and other flowers have been relocated to streamside locations or along walks and other areas where they can be seen at their best.

CALIFORNIA NOTES.

Nurserymen throughout the state were grieved to learn of the death of Ernie Larson, credit manager of the Armstrong Nurseries, Inc., Ontario, early in December.

A camellia show, recently held by Podesta & Baldocchi, San Francisco florists, featured hundreds of cut flowers in various decorative schemes and also plants. The espaliered ones attracted a great deal of attention. Toichi Domoto, camellia specialist of Hayward, displayed several newly imported kinds of camellias from Japan.

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B&B sheared specimen trees, 3 times root-pruned, 36 to 36 ins.	\$122.00
These trees can be shipped 2000 to 4000 per car, depending on grade of trees and size of car.	154.00

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Pinus tabulaeformis (Chinese Pine)

A medium-sized conifer, native of western China. Dense foliage, which clothes even the stem and branches. Needles 2 to 4 inches long, charmingly brilliant green, soft to the touch and of soft, silky luster. The foliage is a distinctive and decidedly pleasing shade of green, and is in this respect unquestionably the finest of any conifer that we are growing. Its general effect is just right. The trees carry a fresh green foliage throughout the year, and are hardy into New England.

For extensive plantings such as highways and embankments, public grounds and parks, estates, hillsides, memorials, windbreaks, snow and sand barriers, hedges and coast and livestock protection, this hardy pine could scarcely be surpassed.

It has been proven by test that it requires twice as much fuel to heat a home with the temperature at 32 degrees and a wind 12 miles an hour as it does to heat the same home with the wind at 3 miles an hour and temperature at 32 degrees. A good windbreak soon pays for itself in exposed situations.

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Santa Clara county had a dinner meeting at Val's Club, Alviso, January 27, at which the Leonard Coates Nurseries, Inc., San Jose, showed a new colored film on horticulture.

The American Seed & Nursery Co., 1515 Taraval street, San Francisco, recently held open house to celebrate their newly completed garden supply rooms.

Miss Alice Eastwood, retired curator of the California Academy of Sciences, Golden Gate park, San Francisco, presented the academy

with \$750 on the occasion of her ninety-first birthday for the purchase of rare botanical papers. Miss Eastwood is the author of several botanical booklets and now spends her time in revising and editing her works.

Sidewalk trees will be planted on both sides of Haight street between Market and Stanyan streets in downtown San Francisco.

The article, "Landscape Architecture—A Profession," which appeared in a recent issue of Landscape Archi-

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ture, features three San Francisco landscape men well known to the bay area nurserymen, Garrett Eckbo, Robert Royston and Edward Williams. In addition to describing the training each has received and the type of work each specializes in, the article also illustrated their recent jobs at private houses and public playgrounds. Among their more recent plantings, which are not mentioned in the article, are the new grounds and retail garden supply department building of the Pacific Nurseries, Colma.

Albert Wilson, NBC radio editor, author and horticultural consultant, is now conducting the garden page of the *Burlingame Advance*.

Juel Christensen, Christensen Nursery Co., Belmont, is recovering from a siege of influenza.

Recently returned to his offices after a short illness is Charles Burr, California Garden Supply Co., Burlingame.

Curt Ephraim is calling on the retail nurseries in the bay area to show his line of novelty vases and flower holders.

The movement of nursery stock and certain agricultural seeds will be permitted, without the necessity of inspection at destination, from certified California nurseries to fifty-two of the state's fifty-eight counties. To qualify for certificates, nurseries must be free of certain major plant pests and relatively free from certain minor pests. Approximately 347 nurseries have qualified for the inter-county nursery certificates, commonly known as pinto tags because of their red and green color. The certificates are valid in each of the forty-five counties whose agricultural commissioners have signed the agreement and in the seven counties which have no such commissioner at the present time. W. B. B.

POPULAR landscape architects, garden experts and well known radio personalities were on hand at the 2-day open house of Orchard Nursery, Danville, Calif. Floral favors were given to visitors.

IN HIS travels as southwestern representative for the Monrovia Nursery Co., Monrovia, Calif., George Bauer learned of several blessed events in the nursery trade, all daughters. The proud parents are the Howard Becketts, Beckett & Son Nursery, Yuma, Ariz; the Ralph Callaways, Callaway Bros. Nursery, Carlsbad, N. M., and the Jack Normans, of Norman's Nursery & Florists' Shop, Phoenix, Ariz.

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400 18 to 24 ins.... .45 .40
Atrorubra (Carmine Crab)
20 4 to 5 ft., branched... .80 .70
20 3 to 4 ft., branched... .65 .55

Red Silver
90 3 to 4 ft., branched... .65 .55
60 3 to 4 ft., whips... .55 .40
30 2 to 3 ft., whips... .45 .30

HAWTHORNE (Crataegus)
Paul's Scarlet
470 3 to 4 ft., whips... .65 .60
380 2 to 3 ft., whips... .45 .40

MAPLE (Acer)
Schwedler (Acer schwedleri)
2800 3 to 4 ft., whips... .65 .60
Soft or Silver (Acer dasycarpum)
160 5 to 6 ft., 5/8 to 3/4-in.,
branched... .85 .75
Sycamore, Purple Leaf
(*Acer pseudo-platanus*)
50 3 to 4 ft., whips... .45 .40

PLUMS, (Ornamental Prunus)
Cistena
80 5 to 6 ft., branched... .85 .80
80 4 to 5 ft., whips... .60 .55
215 3 to 4 ft., whips... .50 .45
30 2 to 3 ft., whips... .45 .40
Triloba, Peach root
50 4 to 5 ft., branched... .85 .80
450 3 to 4 ft., branched... .70 .65
100 2 to 3 ft., branched... .55 .50

WILLOW (Salix)
Babylonica, Weeping
150 5 to 6 ft., branched... .90 .85
320 4 to 5 ft., branched... .70 .60
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Wisconsin, Weeping
50 6 to 8 ft., branched... 1.10 1.00

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[Continued from page 9.]

that one there, and the first thing you know you are away behind schedule? Should you say to the customer, "Will you please let me finish the work as laid out, and when it comes to this extra work, we will do it?" How do you fix the time so that the boss is going to get a little recompense for that work which was never scheduled?

Mr. Robbins: I don't know just what to say, other than we have to use our own discretion. If a person wants a little extra work done, which is going to involve half an hour or forty-five minutes for two or three men, while you are doing her work, I see no harm in doing it right then and there, because it creates good will, and, after all, that promotes business. I will usually do something of that nature if it doesn't involve too much time. If I see that it involves two hours or more, after we finish our initial job we will go into that other work, and there will be an extra charge for it. Usually, it can be explained so that there will be no ill feelings.

Mr. Kane: I believe if the extra work is going to entail too much time, you have got to skip it completely. It is not my responsibility to schedule a job going out of the office. If I take on an extra hour and a half of work, that I think I can stick in later on in the afternoon after I have completed my contract work, and we work like all Harry to get the work out on an hourly basis, the customer wonders why couldn't those guys go at that rate all day long? I believe that, with the exception of fifteen minutes' or a half hour's work, if there is additional work to be done, it should be referred to the office.

Mr. Hopkins: I agree with Mr. Kane. If the time is going to run to any appreciable amount, it should be referred to the office. But if it is a matter of a few minutes, he should do the work when he is there.

Mr. Bond: Here is a question that was handed me this morning. How do you handle, or what, in your opinion, is the best way to handle a lady who is very unhappy? Suppose, through no fault of the foreman's, the customer had not been notified that her planting was going to be delayed two or three days, and he drives into her yard with the nursery stock which she expected three days before.

Mr. Robbins: There is a fairly good form to use there. After you have said, "Good morning," to your

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customer, just keep your mouth shut until she gets through "blowing her top"; then you can really buckle down and talk business. But while she is in that mood, don't try to talk to her.

Mr. Kane: First of all, if you could find someone who could explain the workings of a woman's mind, you could answer it, but I doubt whether

most people can do that. I generally try to get her off the subject. Talk to her about her husband or Sunday school or something that she has something to do with personally. Start from that viewpoint, and generally the customer will soften up and see your viewpoint. As I say, they are all different, but in that

situation, the trouble is that you are taking the responsibility. You are trying to explain something that you had nothing to do with. You are trying to explain something that happened in the office. Therefore, it has got to be done on the spot, and it has got to be made up according to the woman's personality.

Mr. Hopkins: Most of the time I don't find these women too bad. If you can give them a reasonable explanation, most of them accept it.

Set the Foreman.

Mr. Bond: Will some of you fellows in the audience ask these three men a few things that may be on your minds. I think they will try to answer them, although they came here unprepared.

Burt Matroni: I should like to see more positive responsibility concerning the rejection of nursery stock. I doubt if many salesmen can go out and check the material that goes on the job. If the stock doesn't look exactly right, our foreman says, "Well, the digging crew dug it, and the superintendent says put it on the truck." Next to the man who sold the job, the foreman is going to have to answer to the customer. Nobody has mentioned a thing about the customer's end. I would like to see more responsibility in the rejecting of nursery stock. Next to the man who sold the job, the planting foreman should be the only one to say whether that stock should go on the truck or not. Not the digging foreman, not the superintendent, but the man who has to plant the job, and he is responsible to the man who sold it.

Mr. Bond: Would any of you fellows like to answer Mr. Matroni?

Mr. Kane: I think the first responsibility is with the salesman. In other words, he sold the job. When he sold the job, he sold the foreman with the job. Give the foreman a little bit of a build-up. After the salesman has made his initial visit to the job in the morning and explained the details of the job, tell the customer that Mr. Kane is taking over, and he is perfectly capable, probably more so than I am, to run the job.

Mr. Robbins: I can agree with Mr. Matroni about halfway. A salesman sells the job, and he said that he does not have the time to go out and look at the plants, to see that they are O.K. We sure have a job to do, too, and the first thing in the morning, we are rushing. We have got to get the truck loaded. We have got to be there at a certain designated time in the morning. We do not always have the time to look the plants over and see if they are O.K. May-

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be we do see the best side, and we don't see the worst side. All in all, it really falls back, I say, in the salesman's lap. If he is going to plant specimen stock on the job, then he should go out in the nursery and pick out the stock.

Mr. Kane: Speaking from my own viewpoint, I have never seen a time when a poor plant was intentionally allowed to go out on a job, but there have been occasions myself when I have been a little bit doubtful whether or not to accept the stock, or send the material thirty miles back to get a plant in its place. It should be my responsibility to put the plant back if it is too poor to go on the job.

Mr. Hopkins: Regardless of whether the salesman has any time or not, I think he should pick out his stock if he has anything special, and not leave it for the foreman to look over when he is loading his truck. If he wants special plants on the job, he should take time to pick them out and dig them in the nursery.

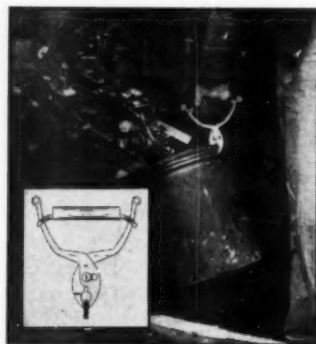
Peter Cascio: I pick out practically every plant that goes out on a job, and I usually pick out the best plants to fit the job. Sometimes there is a dead branch or a dead leaf on a plant, and practically every day I tell the foreman, "Be sure and look that plant over and cut every piece of deadwood off it." And I keep telling him.

Mr. Bond: Well, fellows, all three of you have done plenty. Have you got anything on your own minds that you would like to tell just for the good of landscape foremen.

Mr. Robbins: I would like to mention one responsibility which has not been brought out. That is the responsibility of the foreman toward the crew of men he has working for him. That is a large thing, in my mind, because, after all, the crew of men you have working for you is going to make you a good foreman, or it is not. I find one of the big things in training these fellows is the English language, and that really is a sticker, especially when you are digging for a foundation planting and run across cement, lime or stone.

Mr. Kane: I am probably going to repeat, more or less, what was said earlier, but I still feel that the landscape foreman is undersold. In other words, give him the full responsibility of carrying out his job and all the details with it. The salesman explains the various details of the plan, and what not, and then gives us the tools to do the job with. He needs good men. He needs men that can speak intelligently to the customers, men that are interested in carrying out landscape work.

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Prefab 2001 Logan, Utah

SITUATION WANTED

Nurseryman, experienced in all operations of ornamental, horticultural and forestry nursery, skilled arborist and landscape designer, desires a position. Graduate from a European and an American college as a forester. Experience gained both in Europe and in the U. S. Middle aged, married. Excellent recommendations. Address Box 699, care of American Nurseryman.

FOR SALE

Well established nursery, 4 acres of stock, landscape and maintenance service and high-class clientele. Fully equipped, truck, Rototiller and tools. Must settle estate.

THE IMPERIAL NURSERY
701 S. University St. Normal, Ill.

FOR SALE

A few thousand feet of used black, 2-inch iron pipe, 20¢ per foot, in lots of 200 feet or more. Telephone Arlington Heights 1793-W, or write:
ARLINGTON FLOWER FIELDS
State Road and State Route 58
Arlington Heights, Ill.

NEW UTAH-IDAHO CHAPTER.

The Utah-Idaho chapter of the American Association of Nurserymen was formed February 16, at Salt Lake City, Utah, when the constitution and bylaws were adopted and signed. Chapter 38 will cover all of the territory within Utah and Idaho.

All of the Utah A. A. N. members were represented at the organization meeting, and four Idaho members were represented.

The officers of the new chapter are: President, N. J. Quist, Forest Hills Nursery, Salt Lake City; vice-president, David Petrie, Petrie Landscape Nursery, Boise, Ida., and secretary-treasurer, R. O. Kirkland, Kirkland Nursery, Bountiful, Utah. Mr. Petrie was also elected as the delegate to the A. A. N. convention this summer, and Mr. Kirkland was elected as alternate.

After the organization meeting of the Utah-Idaho chapter, a meeting of the Utah Association of Nurserymen was held, at which all of the members were present, and a report of the public relations committee was given by Karsten Hansen, Pines Landscape Nursery, Centerville. Guest speaker for the evening was Nelson Aldrich, director of public relations of Kennecott Copper Co. R. O. Kirkland, Sec'y.

MOVE TO OWN PROPERTY.

When they moved from Rochester, N. Y., in October, 1948, to Albuquerque, N. M., Mr. and Mrs. Howard L. Davidson established the Dwarf Fruit Nurseries & Earthworm Farm on leased land at 3649 Glendale road. Recently they purchased property at 1740 Bonaguidi road to which the business has been moved.

The Davidsons plan to lay out the nursery as a display garden. A driveway will completely encircle the grounds, allowing the customer to make selections from his car. This plan will also provide parking space for about forty-five cars. A small retail center will be built, and emphasis will be on needs for organic gardening.

Mr. Davidson has started research on the pinon in the hopes of making it a more desirable food. He was a professional landscape architect in the east for over twenty years.

NOTICE

I am no longer operating Braden Nursery, South Windham, Maine, and am not responsible for shipment of orders, except in a few cases where I have personally endorsed checks in payment. My A. A. N. membership does not apply to this Windham nursery.

(Signed)
K. J. BRADEN
R. F. D., Climax, Mich.



Attracts customers in your store

Shiny aluminum strips crackle and flash. Scare-away protects gardens, orchards, fields night and day. Easy to sell!

- High profit item.
- Impulse seller.
- Backed by national advertising.
- Eye-catching display sells itself.

ONLY 25¢ A PACKAGE.
SEND FOR DISPLAY BOX TODAY.



Bring Quick Sales

New garden ties advertised nationally holds flowers, shrubs and vines securely. Attractive green ties with wire center are weatherized with resin...round shaped to cushion delicate stems. Package of 80 retails for 25¢. Write for literature and free samples.

Profit with Portco fast-selling garden items.



CLASSIFIED ADS

Rate: 25 cents per line, each insertion.

Minimum order, \$2.00

AZALEAS

We are booking orders for superior-quality, coldframe-grown Azalea liners for spring delivery at \$10.00 per 100, \$30.00 per 1000.

KURUME and **PERICAT**. INDICA and **HARDY JAPANESE**. 4 to 6 ins. 6 to 8 ins.

Christmas Cheer Brilliant
Coral Bells Criterion
Hinodagiri Elegance
Hortensia Fielder's White
Pink Pearl Formosa
Salmon Beauty Indica Alba
Salmon Queen Phoenicia
Snow Pride of Dorking
Dawn Pride of Mobile
Gardenia Supreme Prince of Orange
Jersey Bell Salmon
Mme. Pericat Kaempferi
Pink Pericat Macrantha, pink
Sweetheart Supreme Macrantha, orange
Twenty Grand Maxwell
Special quotation on large quantity. See our Camellia ad.

COTTAGE HILL NURSERY

T. Kiyono, Mgr.

Rt. 4, Box 130 Mobile, Ala.

75,000 AZALEA TRANSPLANTS. Indica alba, Mary, Hinodagiri, Alice, Amoena, Hinomayo, Flame, Purple King, mixed pink kaempferi.

12½¢ each in 1000 lots; 15¢ each in 100 lots.

Packing and shipping extra. DEKALB NURSERIES, Inc. Norristown, Pa.

Azalea Mollis, 2-yr., Per 100

2 to 4-in. seedlings.....\$5.00

Azalea Altiacense, 2-yr.,

2 to 4-in. seedlings..... 6.00

Cash with order.

HAZEL DELL GARDENS

Canby, Ore.

AZALEA TRANSPLANTS—\$14.00 per 100, \$125.00 per 1000. No packing charge. Hinodagiri, Coral Bells, Ledifolia Alba, Pink Pearl, Haze, Sherwood, Sweetheart Supreme, Orange Coral Bells, Gardenia Supreme, Sweet Briar and Amoena. JOHN WIGMORE, Norman Ave., Riverside Park, Riverside, N. J.

BERRY PLANTS

RASPBERRY PLANTS.

BLACK, No. 1 Tips. Bristol

Cumberland Morrison

LOGAN

PURPLE, No. 1 Tips. Columbian

Sodas

RED, No. 1 Suckers and ¼-in. cal. Transplants.

Indian Summer Chief

Taylor Newburgh

Latham

Complete list of grapevines, currants and blackberries. Write for lowest wholesale prices on your requirements. A portion of the above is in storage ready for immediate shipment, and a portion will be Spring-dug in late March.

H. E. CONGDON NURSERY

North Collins, N. Y.

PIXWELL and SCHWAB GOOSEBERRIES.

LATHAM and CHIEF RASPBERRIES.

Pixelwell Gooseberries, leading variety, 2-yr., heavy, \$25.00 per 100; 2-yr., light, \$15.00 per 100.

Schwab Gooseberries, new seedling (world's largest Gooseberry), berries often 1½ ins. in diameter, highest quality, hardy, very productive, 2-yr., light \$7.50 per 10; 1-yr., heavy, \$6.50 per 10; 1-yr., light, \$5.50 per 10; bearing size, \$10.00 per 10. All Raspberries, No. 1 heavy, \$40.00 per 1000, 10 per cent discount for cash on all stock. All plants that die, replaced at ½ price.

Schwab Fruit Farm & Nursery

220 N. Fifth St. Mankato, Minn.

STRAWBERRY PLANTS.

All leading Everbearing varieties. Northern-grown, No. 1 plants. Per 1000

Streamliner.....\$20.00

Minnesota 1166..... 15.00

Brune's Marvel..... 45.00

Twentieth Century..... 20.00

Superfection..... 10.00

Gem..... 30.00 per 1000. Discount given on large orders.

McNEAL BERRY NURSERY

Hamilton, Mont.

STRAWBERRY PLANTS—State certified, twice inspected. Robinson, \$9.00 per 1000; Premier, Catakill, Fairfax and the new Fairland, \$11.00 per 1000. Everbearing varieties: The new Superfection, \$22.00 per 1000; Streamliner, \$15.00 per 1000; Minn. 1166, Mastodon and Gem, \$12.00 per 1000.

GATEWAY NURSERY

New Buffalo, Mich.

BERRY PLANTS.

Premier Strawberry plants.....\$10.00

Latham Raspberry, No. 1..... 30.00

Latham Raspberry, No. 2..... 15.00

June Raspberry, No. 1..... 50.00

June Raspberry, No. 2..... 25.00

Prices are F.O.B. nursery. Cash with order, please.

J. J. NIGARD NURSERY

Herbster, Wis.

RASPBERRIES.

Black Raspberries: Logan, Cumberland, Black Pearl.

Red Raspberries: Latham, St. Regis (Everbearing).

BLACKBERRIES.

\$4.00 per 100; \$30.00 per 1000.

Everbearing Blackberries.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

STRAWBERRY PLANTS — Doubly inspected, northern-grown. Dunlap, Beaver, Blakemore, \$7.50 per 100; 10,000 up, \$7.00 per 1000. Premier, Giant Robinson, Bellmar, \$9.00 per 100; 10,000 up, \$8.00 per 1000. Giant Gem, Streamliner, Minnesota 1166 everbearing, \$15.00 per 100; 10,000 up, \$15.00 per 1000. These are young, healthy, fresh-dug plants, guaranteed to reach you in good growing condition. IOWA NURSERY, Farmington, Iowa.

GEM EVERBEARING

STREAMLINER PLANTS.

Streamliner, Minn. 1166 and Brune's Marvel. Guaranteed true-to-name and free from mixed varieties. Choice northern-grown plants. Booking orders for spring delivery. 10 per cent discount on orders of \$50.00 or more. Gem, \$10.00 per 1000.

Latham and Newburgh Raspberry plants, \$30.00 per 1000.

DAVIS PLANT FARM

Hamilton, Mont.

RASPBERRY PLANTS. Per 1000

Latham, red.....\$30.00

No. 1 suckers..... 18.00

2-yr. transplants (sold out)..... 50.00

No. 2 suckers..... 18.00

Bristol, black, tips..... 35.00

Cumberland, Logan, Morrison, black, tips..... 30.00

Columbian, purple, tips (sold out)..... 30.00

C. H. BENEDICT, Grand Junction, Mich.

4-FT. CULTIVATED BLUEBERRY PLANTS—Compare our prices. 4-yr., \$9.00 per doz.; \$45.00 per 100, 3-yr., 3 ft., \$8.00 per doz.; \$38.00 per 100, 2-yr., 12 to 24 ins., \$6.00 per doz.; \$32.00 per 100. Varieties: Jersey, Rancocas, Rubel, Also Early Weymouth, new variety, 2-yr., \$12.00 per doz., and New Burlington, 4-yr., \$18.00 per doz. List sent. Our prices wholesale. WARREN SHINN'S NURSERY, Woodbury, N. J.

SUPERFECTION EVERBEARING STRAWBERRY — Foundation stock plants, direct from the originator. The true advanced strain, giving advertising advantages and prestige to users of my foundation stock plants. FRANK J. KEPLINGER, originator and owner of HEART-O-MICHIGAN FARMS & NURSERIES, Farwell, Mich.

STRAWBERRY PLANTS.

Doubly inspected. Aroma, Blakemore, Klondike, Missionary, Dunlap, Klondike, Gem Supreme, \$5.00 per 1000; Gem Everbearing, \$10.000; Progressive, \$8.00; Tenn. Beauty, \$6.00. Prompt shipment.

TOM RAMSEY

Harrison, Tenn.

RASPBERRIES, No. 1 Morrison tips, \$30.00 per 1000.

VICTORIA RHUBARB, 1 to 1½ ins., \$30.00 per 1000; ¾ to 1-in., \$20.00 per 1000; ½ to ¾-in., \$15.00 per 1000.

Can ship rhubarb any time; tips early spring.

ASHCRAFT NURSERY

Copemish, Mich.

STRAWBERRY PLANTS. Per 1000

New Superfection Everbearing.....\$20.00

Streamliner Everbearing..... 16.00

New Arrowhead..... 2.00

Dunlap..... 7.50

500 plants at 1000 rate.

DOLLAR NURSERY, Bloomfield, Iowa.

STRAWBERRY PLANTS.

Northern-grown; doubly inspected.

Gem Everbearing.....\$12.00

Premier..... 11.00

ROBERTS STRAWBERRY NURSERY

Rt. 6 Kalamazoo, Mich.

THORNLESS BLUEBERRY PLANTS — \$6.00 per 100; \$40.00 per 1000. Can you beat these prices? WARREN SHINN'S NURSERY, Woodbury, N. J.

NEW SIOUX STRAWBERRY.

Born at Cheyenne, Wyo. Agri. Exp. Station. A cross between Fairfax and Rocky Mountain wild strawberries. Spring variety, more hardy than other varieties. Berries large with wild strawberry flavor.

Plants \$4.00 per 100, postpaid.

DOLLAR NURSERY Bloomfield, Iowa

STRAWBERRIES.

Bush-type Everbearing, Wayzata origin. Ideal plant under intensive irrigation. Divisions only \$50.00 per 1000.

PAULSEN'S NURSERY

Minden, Neb.

BLUEBERRY PLANTS.

Cultivated, improved hybrids.

Information, varieties and prices gladly sent on request.

HARTMANN'S PLANTATION

Grand Junction, Mich.

Cumberland and New Logan Per 1000

Raspberry Plants.....\$25.00

Robinson Strawberry Plants..... 8.00

Extra-fine plants after best growing season in many years.

ALMENA NURSERY Paw Paw, Mich.

ROCKHILL EVERBEARING STRAWBERRY PLANTS — Generous-size divisions. No packing charge. Priced \$50.00 per 1000, F.O.B. Silvertown. Terms: Cash with order.

ABIQUA GARDENS

Rt. 2, Box 159 Silvertown, Ore.

STRAWBERRY PLANTS.

Aroma, Blakemore, Premier, Gem Everbearing, Mastodon Everbearing, Progressive Everbearing. All at \$5.00 per 1000.

Route 5 Smithville, Tenn.

Certified Minnesota Strawberry Plants.

Wayzata.....\$40.00 per 1000

Improved Giant Gem..... 12.50 per 1000

ALLENORE NURSERY Excelsior, Minn.

BULBS and TUBERS

NELSON'S FLORAL GARDENS offer the following specials in healthy, double-inspected gladiolus bulbs; generous grade and counts.

Per 1000 Nos. 1 2 3 4 5 6 Bhts.

M. Fulton.....\$20 \$17 \$12 \$10..... \$1.80

Florists' Mixture 18 16 10 8 \$6 \$4 1.80

Mixture..... 20 16..... 2.00

Primulins

Florists' Mix., a fine, balanced mix to please the commercial grower.

Primulins Mix., contains fine little glads in beautiful colors; fine for special basket work. Other growers' lots and dahlias. Write for lists. Prices F.O.B.

NELSON'S FLORAL GARDENS

Farmington, Iowa

GLADIOLUS BULBS IN BRIGHTLY COLORED LABEL BOXES.

Gladiolus bulbs in very attractive boxes, 4-color labeled for counter sales. 12 large, rainbow mixed bulbs per box.

\$35.00 per 100 boxes; \$7.50 per 20-box case.

Sample order, 4 boxes for \$2.00.

Also rainbow mixed gladiolus bulbs, per 1000.

No. 1, \$15.00; No. 2, \$15.00; No. 3, \$12.00.

100 at 1000 rate. Cash, please.

JOHN C. VUCICH

R. F. D. 2, Napier Rd. Watervliet, Mich.

GLADIOLUS BULBS FOR COUNTER SALES.

\$15.00 per 1000, F.O.B.

Mixed in 20 varieties including White Gold, Flaming Sword, Margaret Beaton, Dr. Bennett, Snow Princess, Bagdad, Margaret Fulton, Rose Van Lins, New Europe, Red Charm, Rewi Fallu, Stoplight, King Lear, Lavender Ruffles, Spotlight, Corona, Picardy, etc. Ship any time. Deposit to hold.

PORT ARTHUR GARDENS

North Star, Pa.

PEONIES.

Young, 3 to 5-eye plants. Per 100 Per 1000

Edulis Superba, rose-pink.....\$30.00 \$250.00

Floral Treasure, clear pink..... 25.00 200.00

L'Esperance, bright pink..... 25.00 200.00

Pink, unnamed..... 22.00 175.00

30 at 100 rate; 300 at 1000 rate.

WILLIS NURSERY CO.

Ottawa, Kansas

REGAL LILIES.

Quality stock; F.O.B. Portland.

Per 100

4 to 5 ins.....\$4.00; \$27.00 per case of 750

5 to 6 ins..... 5.50; 25.00 per case of 500

6 to 7 ins..... 6.50; 22.00 per case of 350

JOHN MESKE

11120 N.W. Prescott Portland 29, Ore.

50,000 DAHLIA ROOTS. We grow many acres of standard cut flower varieties for the trade. Write today for wholesale price list.

PAYNE DAHLIA FARMS, Route 5, Kansas City 3, Kan.

EVERGREENS—Continued

GOLDEN GOOSE LINERS.

From 2 1/2-in. pots, 1 and 2 yrs. old.

	Per 100
Ilex cornuta, 6 to 8 ins.	\$18.00
Ilex cornuta burfordi, 6 to 8 ins.	18.00
Ilex crenata, 6 to 8 ins.	16.00
Ilex crenata rotundifolia, 6 to 10 ins.	16.00
Ilex crenata microphylla, 6 to 8 ins.	16.00
Ilex opaca (Selected American Holly), 8 to 12 ins.	18.00
Ilex opaca howardii, 10 to 12 ins.	18.00
Ilex opaca East Palatka, 10 to 12 ins.	18.00
Ilex vomitoria (Yaupon Holly), 6 to 8 ins.	18.00
Cleyera ochracea, 6 to 10 ins.	18.00
Berberis julianae, 6 to 8 ins.	16.00
Elaeagnus simoni, 10 to 12 ins.	15.00
Compact Wax-leaved Ligustrum, 8 to 12 ins.	10.00
Ligustrum luc. repandens, 8 to 12 ins.	12.00
Jasminum floridum, 6 to 10 ins.	10.00
Abelia grandiflora, 6 to 8 ins.	10.00
Juniperus horizontalis, 8 to 10 ins.	18.00
Juniperus, Spiny Greek, 8 to 10 ins.	18.00

ROOTED CUTTINGS.

	Per 100
Buxus sempervirens	6.00
Ilex opaca East Palatka	12.00
Ilex opaca howardii	12.00
Ilex cornuta burfordi	12.00
Osmanthus fortunei	10.00
Berberis julianae	10.00
Elaeagnus simoni	10.00
Camellia Sasanqua (mixed)	10.00
Compact Wax-leaved Ligustrum	6.00

Our hollies are grown from either cuttings or grafts, from well berried apicimens, insuring berries for you.
Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES
Germantown, Tenn.

ROOTED CUTTINGS.

	Per 100	Per 1000
Taxus baecata repandens	\$10.50	\$100.00
Taxus brevifolia	8.00	75.00
Taxus cuspidata	6.00	60.00
Taxus media, upright	7.00	60.00
Taxus media, upright, slow grower	7.50	70.00
Taxus Moon's columnaris	7.00	60.00
Taxus hickelii	7.00	60.00
Ilex crenata	7.00	60.00
Ilex crenata convexa	7.00	60.00
Juniperus pfitzeri	7.50	70.00
Thuja occ. nigra	7.50	70.00
Juniperus exc. stricta	7.50	70.00
Cham. plum. aurea	7.50	70.00

ONE-YEAR, IN REIDS.

	12.00	110.00
Taxus brevifolia	11.00	100.00
Taxus cuspidata densa	11.00	100.00
Taxus hickelii	11.00	100.00

ONE-YEAR, 2 1/2-IN. ROSE POTS.

	12.50	120.00
Ilex crenata	12.50	120.00
Ilex crenata convexa	12.50	120.00
Taxus intermedia	12.00	110.00

TWO-YEAR, 2 1/2-IN. ROSE POTS.

Taxus cuspidata	16.00	155.00
Taxus intermedia	16.00	155.00

FIELD-GROWN.

	20.00	450.00
Taxus int., 3-yr. sheared	20.00	450.00
hvy. root	50.00	450.00
Taxus cuspidata, 4-yr. sheared	50.00	450.00
hvy. root	50.00	450.00

Samples on request, packing free for cash with order, 25 per cent deposit required with all orders.

LEHIGH VALLEY NURSERIES, Inc.
1745 Linden St. Bethlehem, Pa.

ROOTED CUTTINGS.

	Per 100
Abelia grandiflora	\$ 4.00
Berberis sargentiana	9.00
Elaeagnus pungens	6.00
Euonymus japonica	6.00
Libocedrus decurrens	8.00
Ready March 20 to April 15	
Lucidum Privet	6.00
Euonymus Jap. Variegatus	7.50

TWO-TO-FOUR INCH POT.

	12.50
Gardenia Mystery (hardy)	12.50
Ilex rotundifolia	12.50
Ret. plumosa aurea	12.50
Ligustrum lucidum	12.50

FIELD-GROWN LINERS FROM POT.

	25.00
Blota bakeri, 6 to 8 ins.	25.00
8 to 12 ins.	25.00
12 to 15 ins.	30.00
15 to 18 ins.	35.00
18 to 24 ins.	40.00
Blota conspicua, 6 to 8 ins.	25.00
8 to 10 ins.	30.00
Blota frutlandi, XXX, 2-yr., 8 to 12 ins.	40.00
12 to 15 ins.	50.00
Greek Juniper, 2-yr., XXX, 8 to 12 ins.	25.00
Greek Juniper, 2-yr., XXX, 12 to 15 ins.	30.00
Nandina, F. G., from beds, 6 to 8 ins.	10.00
Nandina, F. G., from beds, 8 to 12 ins.	15.00
Cash, please.	

BROSEMER NURSERY CO.
Route 1 Hunt, Ala.

RHODODENDRONS.

Hardy hybrid Rhododendrons for spring shipment. 1, 2 and 3-year grafts, including many red varieties. Sizes up to 15 to 18 ins. Prices: \$35.00, \$55.00, \$70.00 per 100, F.O.B. Boskoop.

For complete list of varieties, write to H. G. VANDER LINDEN
R. F. D. Oyster Bay, N. Y.

Representing H. M. Hardy's Nurseries, Boskoop, Holland.

HEAVY LINERS FOR SPRING DELIVERY.

Per 100

1000 Pyramidal Arborvitae, 12 to 15 ins. TTT	\$50.00
1000 Andorra Juniper, 9 to 12 ins. TT	25.00
2200 Andorra Juniper, 8 to 10 ins. T	15.00
700 Woodward Globe Arborvitae, 8 to 10 ins. TT	30.00
650 Juniperus glauca hestl, 12 to 15 ins. TTT	60.00
1000 Taxus cuspidata, 9 to 12 ins. TT	35.00
750 Ilex rotundifolia, 9 to 12 ins. TT	35.00
2000 Canadian Hemlock, 9 to 12 ins. TT	25.00
2000 Canadian Hemlock, 12 to 15 ins. TT	35.00
9000 Juniperus horizontalis, 8 to 12 ins. TT	15.00
100 Ilex convexa, 8 to 10 ins. TT	20.00

All stock heavy, field-grown. Free packing. Cash with order, please. Ask for our complete price list. Mail us your want list for special quotation.

WHERRY'S NURSERIES, St. Marys, W. Va.

LINERS.

Spring Delivery.

	Each
Azalea Mollis, cream, branched, XX, 4 to 6 ins. fld.	\$0.20
Camellia, Hermé, 2-in. pot.	.25
Camellia, Cheerful, 2 1/2-in. pot.	.25
Daphne	.15
Odora, X	.15
Cneorum, X	.12
Heather	.12
Bruckenthalia, XX, 2 to 4 ins., frame	.12
Med. White, XX, 2 to 4 ins., frame	.17
Mrs. Maxwell, XX, 2 to 4 ins., frame	.17
St. Kaverns, XX, 2 to 4 ins., frame	.15
Carnea, X, flat	.12
Mediterranea Hybrid, X, flat	.12
VeVila, X, flat	.12
Springwood White, X, flat	.12
Thuja woodwardi, X, frame	.12
Thuja pyramidalis, X, frame	.17
F.O.B. Nursery, packed free C.O.D.	
POUR STAR NURSERY	
Hi-way 99 at No. 212th	
Rt. 3, Box 3529	Edmonds, Wash.

LINING-OUT STOCK.

	Each
Taxus cuspidata, 4 to 6 ins.	\$0.08
Taxus cuspidata, 6 to 8 ins.	.10
Taxus hickelii, 4 to 6 ins.	.08
Taxus hickelii, 6 to 10 ins.	.10
Juniperus pfitzeriana, 4 to 6 ins.	.12
Thuja occidentalis pyramidalis, 4 to 6 ins.	.08
Thuja occidentalis woodwardi, 4 to 6 ins.	.08
2 1/2-IN. POTS.	
Taxus cuspidata, 6 to 8 ins.	.15
Taxus cuspidata, 8 to 10 ins.	.17
Taxus hickelii, 4 to 6 ins.	.15
Taxus hickelii, 6 to 10 ins.	.17
Juniperus pfitzeriana, 4 to 6 ins.	.18
Thuja occidentalis pyramidalis, 4 to 6 ins.	.15
Thuja occidentalis woodwardi, 4 to 6 ins.	.15
PEARS.	
Bartlett (well branched), 9/16-in.	.60
Bartlett (well branched), 7/16-in.	.40

4342 Branch Rd. Flint, Mich.

LINING-OUT STOCK.

	Per 100
Chinese Pyramid, 1-1, 3 to 8 ins.	\$5.00
Dwarf Oriental, 1-1, 3 to 8 ins.	5.00
Chinese, 1-1, 3 to 8 ins.	4.00
Chinese, 2-0, 3 to 6 ins.	3.00

SPRUCE.

	2.50	20.00
Norway, 1-0, 2 to 6 ins.	2.50	20.00
Norway, 2-1, 2 to 6 ins.	4.00	35.00
Black Hills, 2-1, 2 to 4 ins.	4.00	35.00
Black Hills, 2-1, 4 to 6 ins.	5.00	45.00
Colorado Blue, 2-1, 1 to 3 ins.	4.00	35.00
Colorado Blue, 3-1, 3 to 5 ins.	5.50	50.00
Black, 2-1, 2 to 6 ins.	4.00	35.00
Black, 3-1, 6 to 10 ins.	5.00	45.00

PINE.

	3.00	25.00
Mugo, 2-0, 2 to 4 ins.	3.00	25.00
Table Mountain, 1-0, 2 to 4 ins.	2.50	20.00
Scotch, 2-0, 3 to 5 ins.	3.00	25.00

Terms, 2 per cent for cash with order.

JOHN G. ZELENKA

Rt. 2, Box 293 Grand Haven, Mich.

LINING-OUT STOCK.

	Per 100
1500 Taxus cuspidata, XX, 12 ins., heavy	\$27.50
500 Thuja elegantissima, 2 1/2-in. pots.	20.00
200 Thuja hoveyi, XX, 9 ins.	20.00
75 Retinospora plumosa, XX, 12 ins.	25.00
75 Retinospora plumosa aurea, XX, 12 ins.	25.00
500 Juniperus, Waukegan, XX, 9 to 12 ins.	25.00
3000 Juniperus pfitzeriana, 2 1/2-in. pots.	20.00
(Above Pfitzers now growing in greenhouse.)	
300 Juniperus pfitzeriana, XX, 6 to 9 ins.	25.00
300 Juniperus pfitzeriana, XX, 9 ins.	30.00
100 Juniperus pfitzeriana, XX, 9 to 12 ins.	35.00

All above stock shipped bare-root and packed in moss.

Cash with order, please. Packing free.

DAMASCUS NURSERIES Damascus, Ohio

EVERGREENS.

2000 White Spruce, 2 to 4 ft.; Yew, 24 to 30 ins.; White Pine, 3 to 4 ft.; Pfitzers, Andorra, etc. Sacrifice if you dig them. The EVERGREEN NURSERIES Lowell, Ind.

SEEDLINGS FOR SPRING.

Per 100 Per 1000

Scotch Pine, 2-yr., 2 to 3 ins.	\$ 2.00	\$15.00
Scotch Pine, 2-yr., 3 to 4 ins.	4.00	25.00
Red Pine, 3-yr., 4 to 8 ins.	5.00	35.00
Red Pine, 3-yr., 2 to 5 ins.	4.00	25.00
Austrian Pine, 2-yr., 3 to 4 ins.	4.00	25.00
White Pine, 2-yr., 2 to 4 ins.	3.00	20.00
Norway Spruce, 3-yr., 4 to 8 ins.	5.00	35.00
Norway Spruce, 2-yr., 3 to 5 ins.	4.00	25.00
Norway Spruce, 2-yr., 2 to 4 ins.	2.50	20.00
Colo. Blue Spruce, 3-yr., 2 to 4 ins.	5.00	35.00
Colo. Blue Spruce, 2-yr., 3 to 6 ins.	3.50	25.00
Arborvitae, 2-yr., 2 to 4 ins.	3.00	20.00

Cash, or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000.

SAM DIBLE NURSERY Shelocla, Pa.

LINERS WITH QUALITY.

The plants listed below are grown in 2 1/2-inch rather than 2 1/4-inch pots. They have been growing in the pot plenty long to have a nice root growth and make transplanting most successful. These are outdoor bed-grown plants ready for sale.

	Each
5000 Irish Juniper	\$0.15
2000 Kiyonol Juniper	.15

VERHALEN NURSERY CO.

Scottville, Texas

YOUR PROFITS GROW

IN VERHALEN PLANTS.

SPRING LINING-OUT EVERGREENS.

	Per 100
Taxus cuspidata, 3-yr., 10 to 12 ins. T	\$35.00
Taxus cuspidata, 3-yr.	
10 to 12 ins. T	40.00
Taxus Vermeulen, 3-yr., 10 to 12 ins. T	40.00
Taxus cuspidata, 2-yr., pots	
8 to 10 ins.	25.00
Taxus cuspidata, 2-yr., pots, 8 to 10 ins.	23.00
Viburnum rhytidophyllum, 3-in. pots, 8 to 10 ins.	35.00
Viburnum rhytidophyllum, 2 1/2-in. pots, 6 to 8 ins.	30.00
Juniperus hestl glauca, 2-yr., 8 to 10 ins. T	35.00
Juniperus hestl glauca, 2 1/2-in. pots, 6 to 8 ins.	25.00

STROHL'S NURSERY

1404 N. Anthony Blvd. Fort Wayne, Ind.

QUALITY LINERS.

	Per 100
Taxus cuspidata, 3-yr. X, 8 to 10 ins.	\$30.00
Taxus hickelii, 2-yr. X, 8 to 10 ins.	32.00
Taxus cuspidata compacta henryi, 2-yr. X, 8 to 10 ins.	35.00
Taxus capitata, upright, 2-yr. X, 9 to 12 ins.	35.00
Juniper, Pfitzer, 2-yr. X, 9 to 12 ins.	35.00
Taxus hatfieldi, 4-yr. XX, 8 to 10 ins.	50.00
Taxus hickelii, 4-yr. XX, 9 to 12 ins.	60.00
Buxus japonica, 4-yr. XX, 8 to 12 ins.	45.00
Tsuga canadensis, 6-yr. XX, 12 to 15 ins.	45.00

5 per cent discount on orders of \$75.00 or more. Free packing. Cash with order.

BROOKFIELD GARDENS

Route 6 Delaware, N. J.

LINING-OUT STOCK.

	Per 100
Globe Arborvitae, 2-yr. X, 8 to 10 ins.	\$22.50
Irish Juniper, 2-yr. X, 10 to 15 ins.	22.50
Siberian Arborvitae, 2-yr. X, 8 to 10 ins.	20.00
Spreading Yew, 2-yr. X, 5 to 7 ins.	20.00
Andorra Juniper, 2-yr. X, 8 to 10 ins.	16.00
Globe Arborvitae, 1-yr. X, 5 to 7 ins.	15.00
Pyramidal Arb., 1-yr. X, 5 to 7 ins.	15.00
Black Hills Spruce, 2-yr. X, 5 to 8 ins.	10.00
Balsam Fir, X, 8 to 10 ins.	7.00
Colo. Blue Spruce, XX, 8 to 10 ins.	25.00
Colo. Blue Spruce, X, 3 to 5 ins.	6.00
American Arborvitae, X, 5 to 7 ins.	5.00

Write for prices on rooted cuttings. Cash with order, packing free.

WESTFIELD NURSERY & FLORIST

Westfield, Wis.

Euonymus patens, large leaf.

	Each
upright type	\$0.06
Rooted cuttings, from sand	.10
From 2-in. pots	.15
From 2 1/2-in. pots	.15
Euonymus radicans	.06
Rooted cuttings from sand	.06
Pyraeantha landali, upright, fruiting type	.15
From 2 1/2-in. pots	.15
From 2-in. pots	.25
From 4-in. pots	.25
Pfitzer Junipers, from 2 1/2-in. pots	.18
F.O.B. Kansas City, Mo. Cash, please.	

GLASSCOCK BROS.

6119 Agnes Kansas City 4, Mo.

BUXUS SUFFRUTICOSA—English Boxwood.

	Per 100
4 to 6 ins.	\$15.00
6 to 8 ins.	22.50
8 to 10 ins.	25.00

Compact plants, Virginia-grown.

GULF STREAM NURSERY, Inc.

Wachapreague, Va.

EVERGREENS.

	Per 100
5000 Pfitzer Juniper, 5 to 8 ins.	\$10.00
3000 Irish Juniper, 8 to 8 ins.	8.00
1000 Andorra Juniper, 5 to 8 ins.	8.00

SANDERS' FLORIST AND GREENHOUSES

Monongahela, Pa.

LINING-OUT STOCK.

6 to 8 ins., \$12.50 per 100.
8 to 12 ins., \$15.00 per 100.
Juniperus communis (English)
Juniperus communis aschfordi
Juniperus communis gracilior (Polish)
Juniperus communis depressa
Juniperus communis hibernica (Irish)
Juniperus horizontalis (Prostrate)
Juniperus horizontalis glauca (Blue Creeper)
Juniperus sabinus (Savin)
Cash, please. No packing charge.

BYERS NURSERY CO.

Chase, Ala.

NORTHERN-GROWN LINING-OUT STOCK.

Norway Spruce, 3-yr. S, 4 to 10 ins. \$ 5.00
Spreading Yew, 1-yr. T,
4 to 6 ins. 15.00

2-YR. SEEDLINGS

Scotch Pine, 3 to 6 ins. \$3.00 \$25.00
Norway Spruce, 2 to 4 ins. 3.00 25.00
Black Hills Spruce, 2 to 4 ins. 3.00 25.00
Mugo Pine, 2 to 4 ins. 3.00 25.00

Packing free. Cash with order, please.

ARTHUR CASH NURSERY

Angola, N. Y.

QUALITY LINERS.

Pfitzer Spr. Juniper, 4 to 6 ins., tr. \$22.50
American Holly, 4 to 8 ins. 10.00
Austrian Pine, 3 to 6 ins., adlg. 8.50
Red-flg. Dogwood, 10 to 15 ins., grafts. 75.00
Hybrid French Lilacs, 10 to 15 ins. 27.50
Azaleas (see list) in excellent variety.
Send for new spring list.

POSSUM HOLLOW NURSERIES

6327 Magnolia St. Philadelphia 44, Pa.

JUNIPERUS HETZLI.

1-yr., 5 to 10 ins. \$0.12
1-yr., 8 to 12 ins.20
12 to 18 ins.10
18 to 24 ins.15
2 to 3 ft.20
PHILADELPHUS VIRGINALIS.
12 to 18 ins.20
18 to 24 ins.30
BALCOM NURSERY Kokomo, Ind.

SEEDLINGS.

Scotch Pine, 3 to 6 ins. \$25.00
Austrian Pine, 3 to 6 ins. 30.00
Douglas Fir, 2 to 4 ins. 30.00
Douglas Fir, 4 to 6 ins. 40.00
Douglas Fir, 8 to 12 ins. 80.00
Oriental Arborvitae, 4 to 8 ins. 20.00
Oriental Arborvitae, 8 to 12 ins. 30.00
Azalea Mollis, 2 to 3 ins. 40.00
Write for complete list. JOHN D. NORTH-
RUP, R. F. D. 1, Conneaut, Ohio.

GARDENIAS.

Fortunel, Each
bushy, field-grown, B. R., 12 to 18 ins. \$9.30
2-yr., field-grown, B&B, 24 to 30 ins. .50
2-yr., field-grown, B&B, 30 to 36 ins. .75
Hadley,
bushy, field-grown, B. R., 12 to 18 ins. .30
2-yr., field-grown, B&B, 24 to 30 ins. .50
We deliver to 150 miles in full truckload.
R. STRAUGHAN'S NURSERY, Loranger, La.

TAXUS, LARGE LINERS.

FIELD-GROWN TRANSPLANTS.
From selected cuttings, best strain.
Taxus cuspidata capitata Per 100 Per 1000
12 to 18 ins. \$50.00 \$550.00
Also B&B and spreading, in
landscape sizes for Middle West shipment in
carload lots.
HULK'S NURSERIES, Inc., Babylon, L.I., N.Y.

EVERGREEN SEEDLINGS.

Norway Spruce, 3-yr., 6 to 9 ins. \$5.00 \$40.00
Scotch Pine, 2-yr., 6 to 9 ins., 4.50 35.00
Cash with order, or 25 per cent deposit.
balance express collect. All orders subject to
previous sales.

STRICK & ALLYN CO.

Route 1 Elmira, N. Y.

JUNIPER GRAFTS.

Canaerti, keteleeri, pfitzeriana, glauca and
burkii, on virginiana understock. Spring de-
livery. Terms: Cash with order earns free
packing; or one-fourth cash, packing at cost,
and balance at shipping time. Price, \$40.00
per 100; \$37.50 per 100 at 1000 rate. 250 take
1000 rate.
FLORENCE NURSERY Florence, Ky.

COLORADO BLUE SPRUCE.

Highest-quality Liners and Finished Trees.
Bare roots and B&B; packed for shipment.
Seedlings, 2-0, \$26.12 per 1000.
Transplants, from \$85.50 per 1000.
Specimen Finished Trees, from 63c each.
Write for complete price list.
H. W. WEBER
16 Summer St. Weston 93, Mass.

PSEUDOTSUGA TAXIFOLIA DOUGLASSI.

Douglas Fir, 8 to 12 ins., x, transplanted,
4-yr., field-grown.
\$12.50 per 100; \$100.00 per 1000.
Cash with order, packing free.

AUGUST VORNDRAN NURSERY

1062 Ridge Rd. Webster, N. Y.

SEEDLINGS.

Green Barberry, 2-0, 6 to 12 ins. \$1.50 \$8.00
5000 or more at \$6.00 per 1000.
E. C. MATTHEWS
Harbor Springs, Mich.

Colorado Silver Cedar, 9 to 18 ins., trans-
plants, field-grown, heavy, \$20.00 per 100.
Colorado Blue Spruce, 4 to 7 ins., seedlings,
\$7.00 per 100; \$65.00 per 1000.

C.O.D. orders send 25 per cent cash.

LITTLETON NURSERY

P. O. Box 123 Littleton, Colo.

UNROOTED CUTTINGS OF PFITZER

JUNIPER, 6 to 10 ins. long, not trimmed.

Moss packed; express only, \$10.00 per 1000.

Cash with order.

KRONE'S FLOWER SHOP

4221 Grand Ave. Fort Smith, Ark.

EVERGREEN SURPLUS.

White Spruce, 12 to 18, 18 to 30, 30 to 45

ins., XX; Norway or Red Pine, 24 to 36, 36

to 54 ins., XX. Early spring shipment. Write

for prices.

HAYWARD GREENHOUSES Hayward, Wis.

ROOTED CUTTINGS OF PFITZER JUNI-

PER, dirt bed rooted, 6 to 10 ins. long, strong,

\$15.00 per 100; \$150.00 per 1000. Cash.

KRONE'S FLOWER SHOP

4221 Grand Ave. Fort Smith, Ark.

EVERGREENS.

Pinus Ponderosa, 3-yr. adlgs.

6 to 8 ins., \$45.00 per 1000.

KROEGER'S NURSERY

Butterfield, Minn.

PHOTINIA SERRULATA SEEDLINGS.

\$20.00 per 1000, postpaid. Ready now.

EUBANK BROS. NURSERY

Waxahachie, Texas

DOUGLAS FIRS.

8 to 12-in. Douglas Firs.

\$7.50 per 100; \$60.00 per 1000.

COASTAL GARDENS Sheridan, Ore.

FRUIT TREES

CHERRY and APRICOT TREES.

1-yr., branched.

Each

110 Montmorency, 9/16-in. \$0.35

110 Montmorency, 7/16-in.20

280 Montmorency, 5/16-in.15

40 Early Richmond, 9/16-in.35

110 Early Richmond, 7/16-in.20

100 Early Richmond, 5/16-in.15

200 Moorpark Apricot, 9/16-in.40

120 Moorpark Apricot, 7/16-in.25

240 Moorpark Apricot, 5/16-in.20

50 Stanley Prune, 9/16-in.30

30 Stanley Prune, 7/16-in.20

20 Stanley Prune, 5/16-in.15

Per 1000

5000 Mahaleb seedlings, No. 3. \$ 7.00

2500 Mahaleb seedlings, No. 2. 11.00

Packing at cost.

ROGERS WHOLESALE NURSERY

Box 132 Winfield, Kan.

REDUCED PRICES.

For first-quality stock.

Per 100 Per 1000

Apple trees, 4 to 5 ft. \$20.00 \$175.00

3-yr., 5 to 6 ft. 25.00 225.00

This block of apple trees consists of about

5,000 trees, well branched and free from

disease.

Chinese Chestnut trees, transplanted in

the spring of 1948 to the field, 1 to 2 ft.,

\$50.00 per 100; 2 to 2 ft., \$60.00 per 100;

3 to 4 ft., \$70.00 per 100; 4 to 5 ft., \$80.00

per 100. About 7,000 trees.

Free boxing and packing. If you come with

your truck we will take off what it would

cost us to pack.

HOME NURSERY CO. Fort Gay, W. Va.

AN OPPORTUNITY in Tane-Nashi Persim-

monal Mention American Nurseryman

in your order and get 1000-rate price on order of

50 and up. Our top-quality trees.

Per 100 Per 1000

2 to 3 ft. \$55.00 \$500.00

3 to 4 ft. 70.00 650.00

4 to 5 ft. 90.00 850.00

Cash from new customers, please.

GLEN SAINT MARY NURSERIES CO.

Glen Saint Mary, Fla.

PECANS.

Stuart, Mahan, Success, Moneymaker,

Moore, Burkett, Schley, Western Schley and

other popular and profitable catalog items.

Thomas Black and Willson Wonder Eng-

lish Walnuts, Eureka and Tane-nashi Persim-

mons, Everbearing Fig Trees. Write for ad-

vance trade list.

ARP NURSERY CO

Box 867 Tyler, Texas

GROUND COVERS

VINCA MINOR—Hardy Myrtle (Periwinkle).

For immediate or spring delivery. Individ-

ually made up, long canes up to 18 ins.

in large clumps, 15 to 30 leads. Very thrifty,

prompt shipment, \$37.00 per 1000 clumps.

Any quantity, 2 per cent cash discount if

check accompanies order.

H. C. WAUGH

736 Green St. Marietta, Ohio

EUONYMUS RADICANS VEGETUS.

Per 100 Per 1000

Strong rooted cuttings. \$3.00 \$75.00

PLANE VIEW NURSERY

Newport, R. I.

Don't Be Late!

Mail advertising copy to reach

the American Nurseryman

Monday, two weeks before date of issue.

HARDWOOD CUTTINGS

GENUINE AMUR RIVER NORTH PRI-
VET CUTTINGS — from proven "Mother
Blocks" all hand-sorted, same grade as we
use, so must be correct, \$5.00 for \$11.25.
Cash, packing free.
ALTA VISTA NURSERIES, Davenport, Iowa

HARDY PLANTS

NEW HARDY PERENNIALS.

Per doz. Per 100

ANTHEMIS GOLDEN DAWN.

Excellent golden, double. Pots \$3.50 \$20.00

BUDDLEIA WHITE CLOUD.

Fine, pure white. Pots. 3.75 22.50

CARYOPTERIS BLUE MIST.

Low shrub of blue flowers. Pots. 4.00 25.00

HEUCHERA PINK DELIGHT.

Best pink variety. Field-grown. 3.00 18.00

IRIS BLACK MAGIC. Deep

velvety-purple. Field-grown. 2.50 15.00

MYOSOTIS PINK BEAUTY. Pink,

hardy forget-me-nots. Pots. 3.00 18.00

PHLOX DIVARICATA LAPHAMI.

Best dwarf, lilac. Pots. 3.00 18.00

PHLOX MISS LINGARD.

Best white suffrutescent. Pots. 3.00 18.00

POLEMONIUM BLUE PEARL.

Dainty baby-blue. Field-grown. 2.50 15.00

POLYANTHUS COLOSSAL STRAIN.

Rainbow shades. Mixed. Pots. 3.50 20.00

PYRETHRUM MRS. D. C. BLISS.

Best single, salmon. Field-

grown. 3.50 20.00

SCABIOSA HOUSE'S VARIETY.

New selected strain. Field-

grown. 3.50 20.00

STOKESIA BLUE MOON.

Immense, beautiful blue. Pots. 3.00 18.00

THREE BEST SHASTA DAISIES.

ADMIRAL BYRD. Large, frilled,

semidouble. Field-grown. 3.75 22.50

EDGEBROOK GIANT.

Very large, semidouble. Pots. 3.75 22.50

MAJESTIC.

Excellent, huge, single. Pots. 3.75 22.50

NEW ASTERS.

PLENTY. Lovely, soft blue, al-

most as large as Frikart. Pots. 3.50 20.00

PACIFIC AMARANTH. Dwarf,

amaranth-colored. Field-grown. 3.50 20.00

EXCEPTIONALLY HARDY

GARDEN CARNATIONS.

Fully double, spicy, bright

carmine flowers; compact

cushion-like plants. Pots. 6.00 40.00

LYONDEL GIANT HYBRID DELPHINIUM.

A new strain especially selected for its

large flowers, wide range of colors; doubles,

semidoubles, singles; mixed. Stands droughty

summers and severe winters exceptionally

well.

Large field-grown plants, \$4.00 per doz.;

\$25.00 per 100.

Seeds from selected plants, \$6.00 per 1/4-oz.;

\$11.00 per 1/2-oz.; \$20.00 per oz.

6 plants at doz. rate; 25 at 100 rate. No

packing charge if cash with order.

CORLISS BROS., Inc., NURSERIES

Reynard St. Gloucester, Mass.

HARDY PERENNIALS.

Special offer, in 2-in. pots and field clumps.

HARDY ASTERS. Per 100 Per 1000

ADORABLE, light pink, fld. cl. \$20.00

strong, 2-in. pots. 15.00 \$125.00

BEECHWOOD CHARM, low

deep, red, 2-in. pots. 18.00 150.00

HARRINGTON'S PINK,

stng. pink, fld. cl. 20.00 150.00

strong, 2-in. pots. 15.00 125.00

RED CLOUD, tall, deep red,

fld. cl. 20.00

strong, 2-in. pots. 15.00 125.00

BLUE GOWN, light blue,

strong, 2-in. pots. 15.00

VIOLETTA, deep lavender,

strong, 2-in. pots. 15.00 125.00

SHASTA DAISIES.

G. MARCONI, large, dbl. white,

2 1/2-in. pots. 20.00 150.00

strong, heavy diva. 12.50 100.00

GIANT CHIFFON, fluffy white,

2 1/2-in. pots. 25.00

MAJESTIC, largest white,

2 1/2-in. pots. 20.00 150.00

strong, heavy diva. 10.00 80.00

FLORAL GARDENS Eaton, Ohio

HEAVY, 1-YR., FIELD-GROWN PLANTS.

Per Per

100 1000

Carnation Grenadin, mixed. \$3.00 \$27.00

Carnation Grenadin, red or pink. 3.50 32.00

Carnation Grenadin,

white or yellow. 3.50 32.00

Canterbury Bella, mixed,

single or double. 3.00

Canterbury Bella, mixed,

cup and saucer. 3.50

Russell Lupines, mixed. 5.00

NOVOTNY GARDENS Osage, Iowa

2 1/2-IN. PERENNIALS — Heavy, green-

HARDY PLANTS—Continued

HARDY FIELD-GROWN PERENNIALS.
Dug fresh, packed well, shipped as you direct.

	Per doz.	Per 100
ALYSSUM saxatile compactum	...	\$ 8.00
AMSONIA Tabernaemontana
heavy	...	\$1.50
ASTILBE rosea	...	2.00
AQUILEGIA longissima, 2-yr.
trans.	...	1.50
Rose Queen, large, 1-yr. sdig.	...	12.00
Crimson Star, 2-yr. trans.	...	12.00
Mrs. Scott Elliott, large,
1-yr. sdig.	...	6.00
BAPTISIA australis, large trans.	...	10.00
CENTAUREA montana	...	6.00
CAMPANULA rapunculoides
1-yr. sdig.	...	4.00
CHELONE barbata, brick-red,	...	10.00
large trans.
DELPHINIUM Vetterle & Reinelt
Pacific Giant
Blue Bird, large, 1-yr. sdig.	...	8.00
Guinevere, large, 1-yr. sdig.	...	8.00
Galahad series, 1-yr. sdig.	...	8.00
Summer Sky, 1-yr. sdig.	...	8.00
Round Table, large trans.	...	14.00

DIANTHUS	...	...
Spring Beauty, double, giant	...	...
carnation-like bloom, fra-	...	...
grant; large, 1-yr. sdig.	...	6.00
deltoidea	...	8.00
GALLARDIA Portia Hybrida,	...	...
large trans.	...	8.00
LIATRIS spicata, large	...	2.00
LINUM perenne, blue, large	...	8.00
LUPINE, Russell, large	...	10.00
LYCHNIS Arkwright Ruby, large	...	10.00
MORNING PRIMROSE, divisions	...	5.00
PHLOX, Thor, hardy	...	10.00
subulata, rose-pink, divisions	...	5.00
subulata, brilliant red, divisions	...	5.00
the above two in very large	...	10.00
clumps	...	...
PHYSOTEGIA rosea, divisions	...	4.00
PLATYCODON, blue, lge. trans.	...	12.00
blue, 1-yr. sdig.	...	6.00
PYRETHRUM Robinson's Giant	...	12.00
Hybrid, large	...	...
VERONICA spicata, various	...	6.00
shades	...	...
VIOLA cornuta Arkwright Ruby,	...	...
1-yr. sdig.	...	6.00
Chantrelay, 1-yr. sdig.	...	6.00
mixed colors	...	5.00

Our usual digging season begins the first part of April. Late dormant season; can ship up to June 1.

Prices are F.O.B. nursery. Cash with orders, please.

J. J. NIGARD NURSERY

Herbster, Wis.

"COLORFUL MUMS."
Order today. It's free. Best, newest and latest. Over 300 named hardies; grown, tested and merit-proven here at the Floretum. Covers entire blooming season, Aug., Sept., Oct. and Nov. Latest, newest and best at prices every grower can afford. Field clumps for propagation, rooted cuttings and Bird-banded plants for spring sales. Hardies are booming! Order "Colorful Mums" today! Perennials included.

2 NEW HARDY PERENNIALS FOR 1950.

Bird-banded plants; no planting loss.	...	...
Per 15	...	...
Scutellaria Blue Symphony, rare, tall	...	...
rigid-stem, landscape and garden	...	...
plant	...	\$5.00
Penstemon Pyramy Rose, flowers and	...	...
winter-red foliage make ideal border	...	...
plant	...	\$5.00
PRAIRIE SOUTHWEST FLORETUM	...	...
Fall River, Kan.	...	...

HARDY PERENNIALS.

Strong, rooted divisions, early spring shipment.

	Per 100	Per 1000
300 at 1000 rate.	100	1000
Anthemis Moonlight	...	\$3.00 \$75.00
Hardy Aster
Beechwood Challenger, bright	...	6.00 50.00
red	...	6.00 50.00
Mt. Everest, good white	...	6.00 50.00
Sunset Pink, lavender-pink	...	6.00 50.00
Helenium Gartensoenne, golden-	...	8.00 75.00
yellow	...	8.00 75.00
Polemonium Blue Pearl	...	8.00 75.00
Lychnis viscaria flore pleno	...	8.00 75.00
Chrysanthemum
Aigunquin, early dbl. yellow	...	6.00 50.00
Autumn Lights, copper-bronze	...	6.00 50.00
Little Goblin, bronze pompon	...	6.00 50.00
Ruby Pompon, good red	...	6.00 50.00
pompon	...	6.00 50.00

PLANE VIEW NURSERY Newport, R. I.

HARDY PERENNIALS.

	Per 100	Per 1000
Baby's Breath (paniculata compacta)	...	\$10.00
Bleeding Heart (spectabilis), 3 to 5-eye	...	25.00
B. Compt. Phlox (dwarf, red)	...	15.00
Glaucous Phlox (white)	...	15.00
German Iris (assorted colors)	...	6.00

Write for complete wholesale list.

SHERMAN NURSERY CO.

Charles City, Iowa

PERENNIALS.

New and Standard Kinds.
A most modern and complete selection.
New Wholesale List now ready.
Send for your Free Copy Now.

CARROLL GARDENS

Box 15 Westminster, Md.

HARDY PLANTS.

	2-yr.	Per 100
Coral Bells (Heuchera)	...	\$20.00 \$8.00
Anchusa myosotidiflora	...	8.00
Fritoma (Red-hot Poker)	...	15.00 6.00
Plumbago albertiana	...	6.00
Nepeta mussini	...	12.00 5.00
Shasta Daisy Supreme	...	6.00
Pyrethrum, Robinson and
Kelway, mixed	...	6.00
Spiraea bipendula (Astrilbe)	...	12.00 5.00
Hemerocallis (Day Lily)
best, mixed hyb.	...	8.00
Hemerocallis Hyperion, true	...	20.00
Siberian Iris, dark blue	...	5.00
Veronica incana, (dwarf)	...	6.00
Cash with order, please	...	Minimum, \$5.00.
Packing free

MOBLEY GARDENS

Rt. 6, Box 50 Terre Haute, Ind.

PHLOX SUBULATA.

Our Moss Phlox are wonderful this year. Large healthy clumps at \$1.50 per 10 or \$12.00 per 100. Lining-out stock at \$1.00 for 20 liners of one variety. Any amount over 25 of one variety at 4c each. Write for special prices on quantities of 1000 or more.

Alba, pure white
Atropurpurea, rich wine-red
Lilacina, lilac-blue
Rosea, bright rose
Phlox amoena, rose-pink, about 12 ins.

Terms: Cash with order. All plants shipped by railway express.

KNOLL & WALTERS PERENNIAL FARM

Rt. 2, Box 98 Zeeland, Mich.

SPECIAL !!!

Divisions rooted in Aug., 1949.

Per 100 Per 1000

50,000 Coral Bells (Heuchera), \$8.00 \$60.00

5000 Anchusa myosotidiflora 8.00 70.00

7000 Day Lilies, best, 8.00 60.00

5000 Spiraea filipendula 8.00 60.00

(Goat's-beard) 8.00 60.00

500 at 100 rate. Cash with order, please.

Minimum, \$5.00.

MOBLEY GARDENS

Rt. 6, Box 50 Terre Haute, Ind.

POLEMONIUM BLUE PEARL.

Strong, 1-yr., field-grown, for early spring shipment. 300 at 100 rate.

\$18.00 per 100; \$150.00 per 1000.

A very fine hardy perennial, sun or shade. Blue flowers on 15-in. stems, May and June.

When finished blooming, this Polemonium resolves itself into a 6-in. tuft of dark green, fernlike foliage that gives sales appeal even when not in bloom.

PLANE VIEW NURSERY Newport, R. I.

FIELD PLANTS—Hardy Chrysanthemums.

our choice, 5 each 10 varieties, \$7.50; 10 each 10 kinds, \$15.00; 5 each 20 kinds, \$20.00; 1 each 100 kinds, \$20.00. Morden Pink Lythrum, \$15.00 per 100. Divisions Hemerocallis, Thunberg, Mikado, Kwanso, Gold, \$4.00 per 100. H&E Daisies, \$15.00 per 1000. HILLVIEW GARDENS, Fort Madison, Ia.

GYPSOPHILA.

Bristol Fairy, grafted.

Per doz. Per 100 Per 1000

2 1/2-in. pots \$3.00 \$20.00 \$180.00

25 at 100 rate; 250 at 1000 rate.

BLUE ACRE GARDENS

David L. Guenther, prop.

R. R. 2, Box 162 Piqua, Ohio

BLEEDING HEARTS.

Per 100

Dicentra spectabilis, 3 to 5-eye \$25.00

Dicentra spectabilis, 6 to 8-eye and up \$5.00

Dicentra eximia, 3 to 5-eye 15.00

Dicentra eximia, 5 to 8-eye and up 20.00

J. HENDRIKS, Grower Portage, Mich.

America's Best Source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

BLEEDING HEARTS.

Each

Dicentra spectabilis, 3 to 5 eyes \$25.00

Dicentra spectabilis, 6 to 8 eyes \$5.00

CASHAR W. EVANS, Selbyville, Del.

LIATRIS.

Liatrix pycnostachya, large field divisions,

\$4.00 per 100; \$25.00 per 1000.

REINHOLD'S FLOWERS Flat Rock, Mich.

Pansies, perennials and rock plants in

wide variety. Send for catalog.

PITZONKA'S PANSY FARM

Bristol, Pa.

HOLLY

ILEX OPACA. Large, old, XXXX specimens, 10 to 14 ft. high, 9 to 14 ft. broad; dense overall. Wonderful root systems in clay; no taps. Balled, platformed and loaded; 1 to 5 tons each. Expert handling by foreman with 25 yrs. experience. Well berried females, \$65.00 to \$135.00 each. Males, 25 per cent less. Rooted cuttings from best variety types; guaranteed female (berry-bearing). 1 to 2-yr., knocked from 3 to 7-in. clay pots; 4 to 8 ins., \$225.00 per 1000, 8 to 12 ins., \$500.00 per 1000. F.O.B. Ask for booklet "X-B" Holly.

EARLE DILATUSH, Holly Specialist

(On Rt. 25) Robbinsville, N. J.

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ROSES—Ready for immediate or later delivery. Fine assortment of northern-grown roses, all carefully graded and packed. Never grew a finer, healthier crop. Quality is our first consideration. Mentor is near Cleveland, centrally located for the central states, and close to eastern territory. Save long-distance freight charges and shipping risks. Your inquiries will have our prompt attention.

GERARD K. KLYN, Inc. Mentor, Ohio
Largest Grower of Northern-grown Roses in the Central States.

ROSES.

See our display ad on Roses, page 45 of this issue.

OZARKS PLANT FARMS, Inc.

Seminole Drive Springfield, Mo.

MULTIFLORA JAPONICA ROSE STOCK.

Rooted cuttings carefully graded for budding stock. \$35.00 per 1000; \$500.00 per 10,000.

Can also be used for hedge planting.

GERARD K. KLYN, Inc. Mentor, Ohio

SEEDS.

For growers of ornamentals we offer suitable seed stocks of the following:

Abies concolor, Colorado	3/4-lb. 1-lb.	\$0.80 \$3.25
Aracaria excelsa	...	1.00 3.00
Camellia japonica	...	50 1.50
Cedrus deodara	...	90 2.75
Chamaecyparis lawsoniana	...	55 1.60
lawsoniana argentea	...	1.00 3.00
lawsoniana aurea	...	50 2.50
lawsoniana pendula aurea	...	90 2.75
lawsoniana pyramidalis	...	90 2.75
obtus	...	1.00 2.85
pinifera	...	1.20 3.75
Cryptomeria japonica	...	55 2.00
Cupressus arizonica	...	75 2.25
macrocarpa	...	75 2.25
sempervirens stricta	...	25 .90
Ginkgo biloba	...	...
Juniperus chinensis, clean	...	1.10 3.25
communis, upright, pyramidal,	...	...
clean	...	80 2.50
communis, spreading,	...	...
bush type, d.b.	...	1.10 3.25
communis, spreading,	...	...
dwarf type, d.b.	...	1.20 3.50
scopulorum, dainty-leaved,	...	...
southern form, clean	...	1.25 4.75
virginiana, clean	...	1.00 3.00
Larix europaea	...	80 2.50
leptolepis	...	1.90 5.75
occidentalis	...	3.25 10.00
Picea excelsa (abies), fast-growing	...	1.50 4.50
Pinus cembra	...	50 1.50
densiflora	...	80 2.50
edulis (cembroidea edulis)	...	90 2.75
lambertiana	...	1.00 2.75
monophylla (cembroidea	...	...
monophylla)	...	80 2.50
monticola	...	2.00 6.00
montana, bush type	...	90 2.75
montana, dwarf type	...	1.30 4.00
nigra	...	90 2.50
ponderosa, fast-growing	...	1.50 4.50
strobis	...	1.25 3.75
syvestris, short-needed,	...	1.50 4.50
moderate grower	...	...
syvestris, long-needed,	...	1.70 5.25
fast grower	...	...
syvestris, true Riga	...	4.00 12.00
(rigensis) type	...	1.10 3.25
thunbergi	...	...
Pseudotsuga douglasii (taxifolia),	...	...
fast-growing, hardy type	...	2.65 8.00
Taxus cuspidata, upright,	...	...
Japanese, clean	...	1.10 3.25
cuspidata, spreading, d.b.	...	2.50 7.50
media hicksii, d.b.	...	3.25 10.00
Thuja orientalis	...	50 1.50
orientalis, compact type	...	90 2.75
orientalis, golden forms	...	90 2.75
orientalis, pyramidal type	...	75 2.25
Also available for growers of seedlings.	...	...
Rosa multiflora, thorny type	...	1.10 3.25
Rosa multiflora, thornless	...	1.40 4.25

P. O. Box 131 Jamaica Plain 30, Mass.

FRESH 1949 CROP SEEDS.

Longleaf Pine, Pinus palustris \$3.00

Slash Pine, Pinus caribaea 5.00

Chinquapin, Castanea pumila 1.50

Ilex glabra, smooth-leaved Holly 75

Ilex vomitoria, Yaupon 1.50

Juglans cordis Jap. Walnut 50

Cornus florida, White Dogwood 75

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SHRUBS and TREES

ROSA MULTIFLORA JAPONICA

(Thornless).

Good for budding, hedges and soil erosion.

White flowers, very hardy.

Per 100

2-yr. No. 1, 18 to 24 ins. \$10.00

3-yr. No. 1, 2 to 3 ft. 15.00

9-in. cuttings, hand-made, generous count.

Wood cut early, cuttings made up early, \$3.00

per 100; \$10.00 per 1000.

2-YR. FRENCH PUSSY WILLOWS.

Per 100

18 to 24 ins. \$15.00

2 to 3 ft. 20.00

3 to 4 ft. 25.00

5 to 6 ft. 45.00

GOLDEN WEeping WILLOW.

(Salix elegantissima.)

Golden bark makes a most attractive tree in winter as well as in summer. Stocky trees with heavy heads on the larger sizes. Order at once before growth starts.

	Each	Each
	per 10	per 100
3 to 4 ft.	\$0.50	\$0.40
4 to 5 ft.	.75	.60
5 to 6 ft.	1.00	.90
6 to 8 ft.	1.25	1.00
8 to 10 ft.	1.50	1.25

CRAPE MYRTLE.

Nice bushy plants with an abundance of fibrous roots. "Watermelon Red" and other shades of flowers.

	Each	Each
	per 10	per 100
1 1/2 to 2 ft.	.40	.35
2 to 3 ft.	.50	.40

JASMINE PRIMULINUM.

The handsome large-flowered, spring-blooming variety, not hardy north. Heavy plants.

	Each	Each
	per 10	per 100
3 to 4 ft.	.60	.50

ELAEAGNUS PUNGENS COMPACTA.

A compact type of evergreen elaeagnus. Nice bushy plants at a bargain.

	Each	Each
	per 10	per 100
2 to 3 ft. B.B.	1.75	1.50

AZALEAS, ILEX OPACA, JUNIPERUS VIRGINIANA, FLOWERING CRABS, VITEX, WEIGEA, OSMANTHUS, WHITE ASH, CONCORD GRAPE and many other items of quality are in our wholesale list. Send for copy today. All prices F.O.B. Ex-mo, packing additional.

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Exmore, Va.

OUR STOCK IS TRUE-TO-NAME

AND TOP-QUALITY.

	Each	Each
	per 10	per 100

Althaea (Hibiscus syriacus) Effie Riegel. The finest double white.

	Each	Each
	per 10	per 100
2 to 3 ft.	\$0.60	\$7.00

Oleander, Mrs. Swanson. Semi-double, dainty shell-pink. Finest new.

	Each	Each
	per 10	per 100
24 to 30 ins.	1.00	10.00

Oleander, Riegel's New Hardy. Single, red. A plant of great beauty. Outstanding.

	Each	Each
	per 10	per 100
15 to 20 ins.	.60	6.00

Mimosa, Albizzia julibrissin. Our most beautiful, small, flower-perfect tree.

	Each	Each
	per 10	per 100
6 to 10 ins.	1.00	10.00

12 to 18 ins. 4.00 30.00

24 to 30 ins. 7.00 40.00

36 to 40 ins. 12.00 80.00

50 at 100 rate; 500 at 1000 rate.

3 to 4 ft. transplants. 20.00 125.00

4 to 5 ft. transplants. 40.00

6 to 7 ft. transplants. 90.00

Not less than 10 at 100 rate.

Melia. Texas Umbrella Tree. A small tree of great beauty.

	Each	Each
	per 10	per 100
15 to 18 ins.	6.00	25.00

20 to 30 ins. 8.00 35.00

Not less than 50 at 100 rate; 500 at 1000 rate.

3 to 4 ft. heavy transplants. 35.00

Not less than 10.

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HEDGE PLANTS.

AMUR RIVER SOUTH PRIVET.

Undoubtedly as good and probably better than any grown in the South. The year Spaced well in the row to allow for heavy top development. All stock is field-grown, 1 and 2 years and generously graded. Packed well for shipment.

	F.O.B.	F.O.B.
	Scottville Dallas	Per 100 Per 100

12 to 18 ins. field-grown, B.R. \$ 4.00 \$ 4.50

18 to 24 ins. field-grown, B.R. 6.00 6.50

24 to 30 ins. field-grown, B.R. 8.00 8.50

30 to 36 ins. field-grown, B.R. 10.00 10.50

3 to 4 ft. field-grown, B.R. 15.00 16.00

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Your Profits Grow in Verhalen Plants.

Chinese Chestnuts, 10 to 12 ins. \$25.00; 15 to 18 ins. \$30.00; 20 to 28 ins. \$35.00 per 100, 1000 lots, 10 per cent off.

Buxus sempervirens, hard roots, branched, field-grown, 2 to 3 ft. \$15.00; 10 to 12 ins. \$20.00 per 100, 1000 lots, 10 per cent off.

Magnolia grandiflora, 2-yr., field-grown, 10 to 12 ins. \$25.00; 15 to 20 ins. \$35.00 per 100.

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	Each	Each
	per 10	per 100
Honeysuckle, Zabeli.	\$27.50	
2 to 3 ft.	30.00	
Lilac, Persian, 2 to 3 ft.	25.00	
Weigela rosea, 3 to 4 ft.	25.00	

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LaFayette, Ill.

REMOVAL SALE.

On 20 acres of nursery stock. Medium to large sizes of 40 different varieties including Norway Maples, Taxus, Arborvitae, Cinkro, Oaks and Lindens. Write us for our price list.

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615 E. Main St. Patchogue, L. I., N. Y.

SEEDLINGS.

Per 100 Per 1000

Chinese Elm, 2-yr., adigs. (root-pr.)

9 to 12 ins. \$0.55 \$ 5.00

12 to 18 ins. .80 8.20

18 to 24 ins. 1.50 12.50

2 to 3 ft. 2.00 18.00

Russian Olive, 1-yr. adigs.

6 to 12 ins. 1.20 10.80

18 to 24 ins. 3.00 28.00

Soft or Silver Maple, 1-yr. adigs.

6 to 12 ins. .80 7.20

12 to 18 ins. 1.20 10.80

18 to 24 ins. 1.80 16.80

Red Osier Dogwood, 1-yr. adigs.

6 to 12 ins. 1.40 12.50

12 to 18 ins. 2.00 18.00

American Elm, 1-yr. adigs.

6 to 12 ins. .60 5.50

12 to 18 ins. .90 8.50

Packing Free. Cash with order. Satisfaction guaranteed.

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426 Kearney Manhattan, Kan.

LINING-OUT STOCK.

Honeysuckle, Heckrott, 10 to 12 ins. \$14.00

Euonymus coloratus, 1-yr. transplants 12.00

Euonymus carrierei, 1-yr. transplants 10.00

Euonymus radiata, 1-yr. transplants 10.00

Red Cedar, seedlings, 4 to 6 ins. 4.00

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ROOFTOP CUTTINGS.

Euonymus radiata, well rooted. 7.50

Euonymus carrierei, well rooted. 7.50

Euonymus coloratus, well rooted. 8.00

HARDWOOD CUTTINGS.

Hand-made, 7 ins. Per 1000

California Privet \$3.50

Amur River North Privet. 3.50

Lombardy Poplar. 3.00

Cash, please. No charge for packing.

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BARBERRY LINERS, for spring delivery.

Thunbergi (green-leaved). Per 100 Per 1000

2-yr. adigs. 6 to 8 ins. \$ 2.00 \$15.00

2-yr. adigs. 9 to 12 ins. 3.00 25.00

2-yr. adigs. 12 to 18 ins. 5.00 45.00

BARBERRY, FINISHED STOCK.

Thunbergi (green-leaved).

3-yr. trans. 18 to 24 ins. 17.50

Thun. atropurp. (red-leaved).

4-yr. trans. 18 to 24 ins. 25.00

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LOMBARDY POPLAR.

We are offering to the wholesale trade some extra-nice, low branched trees, at special attractive prices.

Per 10 Per 100

500 5 to 6 ft. \$2.50 \$20.00

800 6 to 8 ft. 3.50 30.00

900 8 to 10 ft. 5.00 45.00

500 10 to 12 ft. 6.00 55.00

Trees are durable ship quickly.

SHERMAN NURSERY CO.

Charles City, Iowa

CATALPA BUNGEI.

(Umbrella tree.)

Each

590 3 to 4 ft. \$0.85

75 4 to 5 ft. .95

618 5 to 6 ft. 1.15

F.O.B. Shenandoah, Ia.

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SEED & NURSERY CO.

Shenandoah, Iowa

PINK DOGWOOD.

30 to 36 ins. B.R. \$1.75 each

24 to 30 ins. B.R. 1.40 each

18 to 24 ins. B.R. 1.00 each

PINK DOGWOOD, liners, dormant, budded fall of 1949.

WHITE DOGWOOD.

3 to 4 ft. B.R. .60 each

2 to 3 ft. B.R. .40 each

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Winchester, Tenn.

A few thousand 2, 3 and 4-year-old Apple, Pear, Cherry and Apricot in leading varieties.

5000 Amur River North Privet, 2 to 3 ft. \$25.00; 3 to 4 ft. \$30.00; 4 to 5 ft. \$35.00 per 1000.

1000 American Ash, 1 1/2, 2 and 2 1/2-in. Also Apple and Pear grafts.

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Farina, Ill.

Russian Olive Seedlings

6 to 12 ins. 1-yr. \$10.80

18 to 24 ins. 1-yr. 24.00

2 to 3 ft. 1-yr. 35.00

Chinese Elm Seedlings

12 to 18 ins. 1-yr. 8.20

18 to 24 ins. 1-yr. 12.00

FRANK MILLER, JR., NURSERY

R.R. 1 Manhattan, Kan.

CHINESE CHESTNUT TREES.

Pure, hardy northern strain, 2-yr. trans.

Per 10

2 to 3 ft. \$ 7.50

3 to 4 ft. 10.00

4 ft. 11/16-in. cal. 15.00

WHITFORD NURSERY

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LOMBARDY POPLARS.

Large caliper, heavily branched. Beautiful for landscaping. 1 1/2-in. 6 to 8 ft. \$4.00 per 10; \$3.00 per 25. 1 1/2-in. 8 to 10 ft. \$5.00 per 10; \$4.00 per 25. Express collect.

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ACER SACCHARUM (Sugar Maple).

Per 100

6 to 7 ft. \$45.00

7 to 8 ft. 60.00

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SALE—Hard or Sugar Maples, 1/2 to 1-inch caliper. Lots of 10 or more, \$1.00 each.

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Evergreens, Ornamental Shrubs and Trees.

40 varieties. Lining-out and finished stock.

List free.

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VEGETABLE PLANTS

WHOLESALE PRICE LIST—1950.

VEGETABLE PLANTS

Plant variety Date Ready Per 1000

Cabbage Now \$1.25

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Leading varieties. Write for catalog.

Large, fresh plants. Prompt shipment.

Write or Wire:

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ASPARAGUS ROOTS.

Booking orders for spring delivery.

Washington, strong, well graded.

Per 100 Per 1000

1-year \$1.50 \$12.00

2-year 2.50 20.00

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VINES

GRAPEVINES

Per 25 Per 100 Per 1000

SUPPLIES—Continued

ACE BOXES ARE ACE HIGH. FLATS, COMBINATION and BULB BOXES, shipped knocked down or made up, per 100, F.O.B. Kansas City, Mo.

Inside measure K.D. Made up

16x11 1/2x2 1/2 ins.	.....	\$17.00	\$20.00
18x12x2 1/2 ins.	.....	18.00	21.00
20x14x2 1/2 ins.	.....	23.00	26.00
22x15x3 1/2 ins.	.....	28.00	31.00

Other sizes quoted on request. Orders of 300, deduct \$1.00. Orders less than 100, add 50c. Special prices on 1000 or more. Bottoms and sides 1/2-in., ends 3/4-in. Good grade lumber. Check must be attached to order. Prompt delivery.

COMBINATION BOXES.

Priced per 100, F.O.B. Kansas City, Mo.

Outside measure	K.D. Made up
12x6x5 ins.	.....\$12.00 \$14.00
14x8x5 ins.	.....14.00 16.00
16x8x5 ins.	.....16.00 18.00
18x8x5 ins.	.....18.00 20.00
20x8x5 ins.	.....20.00 21.00

In quantities of 300, deduct \$1.00 per 100. Less than 100, add 50c.

ACE BOX CO., Inc.

1673 Madison Ave. Kansas City 6, Mo.
Phone: Victor 4494.

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

KNOCK-DOWN FLATS.

16x12x2 1/2	.....\$18.82 per 100
16x14x3 1/224.98 per 100
20x14x3 1/224.56 per 100
20x14x3 1/228.68 per 100
22 1/2x15x3 1/228.14 per 100
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We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

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Birmingham, Ala.

DAHLIA OR TREE LABELS.

	Priced per 1000
3 1/2x2 ins., notched, not wired.	Plain Painted \$2.50
3 1/2x2 ins., w/d copper	3.00

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4x4 ins. (cartons 1000 each)...	3.30
5x4 ins. (cartons 1000 each)...	3.30
6x4 ins. (cartons 1000 each)...	3.50

Priced per carton.

8x4 ins. (cartons 500 each)...	2.50
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GARDEN STAKES.

8x 1/2 ins. (cartons 250 each)...	2.00
10x 1/2 ins. (cartons 250 each)...	2.25
12x1 1/2 ins. (cartons 100 each)...	1.50

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

YOH & HOOKER Youngstown 2, Ohio

ELECTRIC PROPAGATING KITS.

FOR GREENHOUSE BENCHES OR HOT-BEDS—Each contains long-lasting HEAT-SUM CABLE, Soil Thermostat, Pilot Lamp and Thermometer.

Sq. Ft.	Length and	Price
Unit Heated Watts Volts No. Units		
A 20 200 110 1- 60 ft.		\$18.93
B 40 400 110 2- 60 ft.		23.93
D 80 800 110 1- 300 ft.		32.42
E 150 1500 110 1- 500 ft.		48.93
F 300 3000 220 1-1000 ft.		76.30

All prices F.O.B. Seattle

COLDFRAME FROST PROTECTION—Same equipment will protect 50 PER CENT MORE AREA. LITERATURE ON REQUEST. L. N. ROBERSON CO.
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Budding, Grafting Supplies, "TRE-TEX," Hydrometers, Hygrometers, Magnifiers, Pruning and Spraying Equipment, Ladders.
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Flora Dale (Adams County), Pa.

HARDWOOD CUTTING MACHINES.

Save time, save labor, save money. Use Wilson's Hardwood Cutting Machine to make up your cuttings. Cutting blades made of best steel, sharpened and will keep a keen cutting edge. Parts and repairs on request.

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Winnaboo, Tex.

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"HIGH NITROGEN-QUALITY PEAT"
Reliable, efficient, economical. 93 per cent organic, pH 4. Serving leading nurseries for over 10 years. Fine, medium and coarse grinds. OUR BAGS ARE HUGE! Carloads, truckloads, bulk and bagged.

2 to 100 bags (4 to 5 bu.), only \$1.50 ea.
F.O.B. Capac, Mich. Dealer franchises open. Tests prove M.P. does a better job cheaper. WHY PAY MORE? Order today!
MICHIGAN PEAT, Inc.
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MINNESOTA WHITE CEDAR FLATS.
12x16x2 1/2\$18.25 per 100
14x20x2 1/222.00 per 100
14x20x3 1/225.00 per 100
Other sizes quoted on request. Also crating and other lumber. Aspen and Pine. F.O.B. Cook, Minn. Please attach check.
H. C. HILL & SONS, Cook Minn.

TREE DIGGERS.

The Tree Digger gets all the roots with your Fruit Trees, Shade Trees, Flowering Shrubs, Rosebushes, etc. Nursery stock properly dug with all the roots means satisfied customers. Particulars on request.

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20% Reduction on Cables and Thermostats.
60-ft. Cable and Thermo., for 3 x 6 ft., \$14.60
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Write for prices on burlapped and wire-bound bales.
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FLORIDA DIRECTOR NAMED.

Now taking up his duties as director of the Florida agricultural experiment station, Gainesville, Willard M. Fifield has been on the staff of the station for the past eighteen years and has been assistant director since 1941.

He graduated from the University of Florida College of Agriculture in 1930 and obtained his M.S. degree in 1932. At this time he became assistant horticulturist at the subtropical station, Homestead, and became horticulturist in charge in 1939. Named as assistant to the director in 1941, he became assistant director six months later. He succeeds Harold Mowry as director, who retired January 31.

Mr. Fifield has been a member of the State Horticultural Society for twenty-one years and has been elected as a fellow of the American Association for the Advancement of Science. He is also a member of the Soil Science Society of Florida.

He has written and helped with the writing of several bulletins on potato growing, and citrus fruits and fertilizing experiments, as well as numerous articles for scientific and popular journals.

Mr. Fifield was on military leave from March 8, 1942, to December 31, 1945.

RESIGNATION after six years as superintendent of parks at Rochester, N. Y., was announced by William Pitkin, who will now devote all of his time to professional work in the fields of land planning, landscape architecture and park design. He will locate his headquarters at Asheville, N. C., also maintaining an office at Rochester, and plans to do consulting and planning work in North Carolina, South Carolina and Tennessee.

ACCORDING to Minnesota nurserymen Ken Law, of Jewell Nurseries, Inc., Lake City; R. M. Ruedlinger, Ruedlinger Nursery, Minneapolis, and Gordon Bailey, J. V. Bailey Nurseries, St. Paul, Wayne Ferris, of Earl Ferris Nurseries, Hampton, Ia., vice-president of the American Association of Nurserymen, takes to ice fishing like a duck to water. The four enjoyed a fishing trip to Lake Mille Lac early in February. Mr. Law has snapshots to prove that Mr. Ferris really caught walleyed pike through a hole in the ice and to substantiate the three Minnesotans' claim that he is the best onion cook in northern Minnesota.

PENN STATE CONFERENCE.

[Continued from page 8.]

creeping cotoneaster, is attractive in flower, foliage and fruit but is not always hardy in all sections of the state. It thrives very well at State College.

Good small shrubs, those which can be expected to reach a height of four to six feet, are a little more plentiful, especially in the broad-leaved evergreen group. *Abelia grandiflora*, glossy abelia, while not strictly evergreen in most of Pennsylvania, is attractive in foliage and flower, the latter appearing from mid-June until frost and the foliage remaining shiny-green until December or January. It will do better if planted in a spot protected from winter winds and even then may have some tips killed. New growth in the spring, however, will soon hide these tips or they can be pruned out.

Other good small broad-leaved evergreen shrubs are *Berberis julianae*, wintergreen barberry, with showy gray-blue fruit which persists all winter along with shiny green leaves; *Euonymus kiautschovicus*, spreading euonymus, of broad habit with bright green leaves until December or January; *Mahonia aquifolia*, Oregon grape mahonia, with unusual leaves that turn reddish-purple in fall and remain over winter; *Pieris japonica*, Japanese pieris, an outstanding plant bearing bright green leaves all year and that also produces an abundance of reddish flower buds in clusters over winter followed by delicate white flowers in early spring; rhododendrons, both carolinianum, Carolina Rhododendron, and catawbiense—catawba rhododendron, as well as hybrids are showy in flower and have good foliage throughout the year. For those wishing small deciduous shrubs, the azaleas in variety are suggested and *Viburnum carlesii*, Korean spice viburnum, which has fragrant flowers.

Medium shrubs, those from six to ten or twelve feet, include *Kalmia latifolia*, mountain laurel; *Pyracantha coccinea* lalandi, Laland firethorn, and *Rhododendron maximum*, Rosebay rhododendron, as good broad-leaved evergreen types. *Berberis mentorensis*, Mentor barberry; *Cotoneaster dielsiana*, Diels cotoneaster; *Euonymus alatus*, winged euonymus; *Forsythia intermedia* spectabilis, showy border forsythia; *Kolkwitzia amabilis*, beautybush; *Ligustrum obtusifolium* regelianum, Regel privet; *Lonicera fragrantissima*, winter honeysuckle; *Malus sargentii*, Sargent crab apple; *Myrica pensylvanica*, northern bayberry; *Rhodotypos scandens*, jetbead; *Viburnum dilatatum*,

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linden viburnum, and Viburnum tomentosum, doublefile viburnum, are all excellent deciduous plants. The winged euonymus is especially showy for fall coloration of foliage, while the Sargent crab apple and the viburnums are showy in flower and in bright fruit.

Recommended large shrubs among the broad-leaved evergreens would include Ilex opaca, American holly; Chionanthus virginicus, white fringe tree; Cornus mas, Cornelian cherry dogwood; Ligustrum amurense, Amur River privet; Lonicera maacki podocarpa, late honeysuckle; Syringa chinensis, Chinese lilac; Syringa vulgaris, hybrid varieties; Viburnum prunifolium, blackhaw viburnum; and Viburnum sieboldi, Siebold viburnum. The white fringe tree is outstanding for its loose, lacey panicles of white flowers in late May; the Cornelian cherry dogwood for its early flowers; the lilac for its showy flowers, and the viburnums for their fruits. The holly is good the year around for foliage and fruit.

Outstanding small trees are Acer ginnala, Amur maple, for its bright red fruit in July and red foliage in the fall; Cercis canadensis, eastern redbud, for its spring flowers; Cornus florida, both white and pink forms, for flowers, foliage and fruit; Crataegus phaenopyrum, Washington hawthorn, for white flowers, shiny foliage, and red fruit which lasts well into winter; Koeleria paniculata, panicle golden-rain tree, for golden flowers in July and inflated seed pods in August; Magnolia soulangeana lennei, Lenne magnolia, for deep-colored, large flowers, and Malus atrosanguinea, carmine crab apple, for abundance of deep carmine flowers and attractive fruit.

There are many good standard trees, but Acer saccharum, sugar maple; Ginkgo biloba; Liquidambar styraciflua, sweet gum; Nyssa sylvatica, tupelo, and Quercus borealis, red oak, are exceptionally good for most conditions.

Evening Forum.

At the forum in the evening, A. O. Rasmussen, professor of ornamental horticulture of the extension service, served as moderator. Several topics were discussed. Most nurserymen preferred to prune evergreens in the spring before or as growth is beginning. Unless unusually regular or formal plants are desired, one pruning a year is sufficient. Pruning by knife or hand shears is practiced by more nurserymen than by hedge shears or sickles, although with the latter, faster work can be done. Root pruning should be done every three

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or four years in order to keep the root system compact and near the base.

A possible law to require a license to be obtained by anyone practicing landscape work in the state was discussed. Feeling generally was against such a law since it was felt nurserymen might eventually be restricted from doing landscape work without a license.

Plant Propagation Practices.

The program was resumed Wednesday morning with a talk by Nick Geers, of the Richard Schwoebel Nursery, Ardmore, on "Practical Plant Propagation." He told of the practices as carried on at that nursery. Pure sand is used as the rooting medium in benches that are eight inches deep. Formerly a mixture of sand and peat was used, but it did not prove satisfactory, as the bottom of the bench stayed too wet and considerable rotting of cuttings resulted.

Cuttings are usually made in the fall, are eight inches long and are inserted two and one-half inches deep in the sand. They are spaced two by one and one-half inches apart, for it is a mistake to crowd the cuttings in the bench. Cuttings are selected from the best stock plants available. The tendency to take cuttings from second-rate plants should be avoided since the new plants will be similar to the parent plants. Cuttings are checked from time to time and left in the sand until June, at which time they are potted. If greenhouses are

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not available, cuttings can be rooted in coldframes, but should be taken a little earlier, about September. Excellent rooting of such plants as taxus, thuja, cotoneaster, abelia, holly and chamaecyparis is secured. As high as ninety-eight per cent of the azalea cuttings are rooted. Ilex glabra has responded best when cuttings are taken in the summer, and of Taxus baccata repandens cuttings when taken in October. Better rooting will result if the leaf surface is not reduced. The best time of the day for making the cuttings is in the morning while the tissue is fresh.

The propagating sand is used only once. After the cuttings are taken out the sand is removed and the bench sterilized with formaldehyde. If less than seventy-five per cent rooting is secured it is best to abandon the idea of propagating by cuttings. Plants which can be secured readily from seeds are andromeda and hemlock.

Rules for Shade Tree Pruning.

The second speaker was Walter P. Morrow, Morrow Tree Co., Sewickley, whose topic was "Pruning Shade Trees." He feels that far too little has been said or written about this subject. "If we want to have stately and healthy trees in years to come, we must begin ministrations while the trees are young, just as is done with the human race," he said.

Before starting to prune a young shade tree, the ultimate size and shape of the mature tree must be visualized. Due to the variation in the shape of trees within even a single species, each tree must be studied individually before a decision can be reached as to which branches should be removed.

In pruning a young tree, it must be kept in mind that the job is to assist nature in producing a strong framework for the canopy of leaves. While nature alone produces many fine specimen trees, anyone who has scoured the countryside looking for large trees to transplant to a client's property will agree that the percentage of sound large trees is small.

A good rule to follow in pruning young trees is to remove low branches to a point where the lowest permanent branch is wanted. This may require two or three years' pruning to reach that height. Above this point the tree should be examined for narrow, weak crotches, and if any are in evidence, one fork should be removed. This may spoil the shape of the tree for the time being, but it will shape itself and send out new branches where they are needed.

The next step is thinning out the top branches so that those remain-

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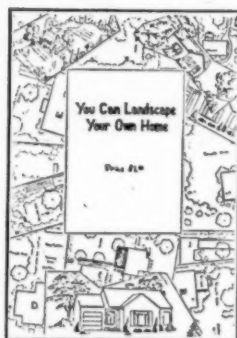
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ing will have ample room to develop into a symmetrical tree. The leader should be left intact, as its removal usually results in an unnatural development of the tree. When pruning, clean cuts should be made, and no stubs left. Mr. Morrow cited cases in which some laborer who knew nothing about pruning and cared less had hacked off branches, leaving stubs and torn bark. This manner of removing excess growth does more harm than good and should never be practiced.

Another common error seen all too frequently on newly-planted trees is the heading back of the main leader. This cutting back causes side branches to develop at that point and, of course, results in low-headed trees, which are usually structurally weak as well as unsuited for street or driveway planting.

In considering the larger trees on lawns and streets, Mr. Morrow noted that arborists frequently have to correct the mistakes which were made when the trees were small. Large interfering branches must be removed, which leaves large wounds that require years to heal. When these large cuts are made, they should be pointed top and bottom with a chisel to encourage bark growth. All cuts one inch or more in diameter should be painted with an antiseptic tree paint to prevent the entrance of fungi. Many times these large cuts will not heal over before decay has set in.

Many tree owners have no conception of the knowledge required to prune a tree properly. While they realize that only an experienced man can go to the tops of their large trees to remove some dead branches, they feel that their handy man can take care of any work that has to be done on the small trees. Mr. Morrow's stock answer in this case is that they are making a future patient, or what the handy man spoils, the arborist is called upon to repair at a future date.

Frequently, secondary roots, known as girdling roots, develop on the surface or near the surface, and for some unknown reason grow around the tree trunk. As these increase in diameter, they restrict the natural expansion of the tree trunk, thereby shutting off the sap flow and weakening or killing the tree. The roots should be examined before one starts to prune the tree. If none are in evidence on the surface, but the trunk does not show the natural bulge at the ground line, it is advisable to remove the soil and look for offenders under the surface. According to Mr. Morrow, his company has found these roots as much as twelve

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inches under the surface. These must be chiseled off so that nature can again assert itself. The chisel, incidentally, is an important tool in the pruner's equipment. There is no use in removing a lot of dead branches from a tree if girdling roots are going to be the death of the tree.

In conclusion, Mr. Morrow told the group always to keep in mind that the strength and beauty of the mature tree are formed while the tree is young, and to prune for the future when working on trees in the nursery.

Planting Costs Presented.

A talk on "Costs of Planting" by Owen B. Schmidt, of F. D. Moore & Sons, Narberth, proved most interesting and invoked considerable discussion. In determining the cost of planting, the labor-time basis is the most reliable and fair method, he believes. Using only a percentage of the cost of the plant does not give a true distribution of cost. For example, with a mock orange the cost would be too low, while with an azalea the cost might be too high. Mr. Schmidt presented several charts, giving the time necessary to complete the various operations of planting so that by using the prevailing labor rate, one can determine the cost of the planting.

The first chart dealt with the time required for moving trees with from 12x12-inch balls to those with 72x32-inch balls. Mr. Morrow has determined that it requires one hour and four minutes to move a tree with a 12x12-inch ball, three and two-thirds hours to move one with a 24x18-inch ball, eighteen and one-quarter hours to move one with a 42x27-inch ball and seventy-six hours to move a tree with a 72x42-inch ball. These total time figures are reached by determining and adding the times for various operations involved. For instance, Mr. Morrow's chart shows that for a tree with a 36x24-inch ball, with twelve and one-half cubic feet of soil in the ball, and the ball weighing 980 pounds, 189 minutes are required for digging and lacing, 126 minutes for handling the ball. A hole of fifty-four inches is required, and thirty-eight cubic feet of soil must be excavated from the hole, which requires 190 minutes to dig, and twenty-five and one-half cubic feet of soil are displaced. About 143 minutes are required for planting the tree and pruning the tree, while thirty-six minutes are needed for watering, wrapping, guying and cleaning up. A total of 114 cubic feet of top soil are handled in the moving process, all of which takes eleven and one-third hours for

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a tree with a 36x24-inch ball on the basis of the data given.

The second chart, which presented the average time for digging and planting shrubs with bare roots, showed that a 2 to 3-foot shrub would require five minutes for digging, five minutes for handling, and twenty minutes for planting, pruning, watering and cleaning up, the total labor time would be thirty minutes, so it was estimated that one man could move eighteen shrubs of this size per day. Shrubs up to 6 to 8-foot sizes were shown, with the largest size requiring ninety minutes to move, so one man could move six in one day.

The next chart, dealing with shrubs with soil and burlapped but not laced, allotted eight minutes for digging a 2 to 3-foot shrub, six minutes for handling and thirty-one minutes for planting, pruning, watering and cleaning up. The total time would be forty-five minutes, and one man could be expected to move twelve per day. Again sizes up to eight feet were shown, the largest taking 270 minutes to move, so that one man could move five 6 to 8-foot shrubs in a day.

The last chart gave the average time for planting 1,000 square feet with the following ground covers: Ivy, pachysandra, sarcococca, ajuga,



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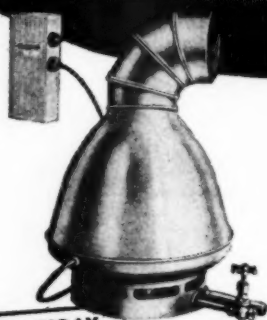
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roses, honeysuckle and Vinca minor. For all these plantings nine labor hours would be required to dig a 1-inch deep bed and another nine labor hours to spread one ton of rotted manure one inch deep and four bales of peat moss one inch deep and to prepare the bed. The planting time for ajuga was eighteen hours, bringing the total time to thirty-six hours. It required the same time to plant the 1,000 square foot bed with 4,000 pachysandras. Total time for planting the bed with 750 sarcococca plants was twenty-five and one-half hours, of which seven and one-half were for actual planting; for 334 roses it was thirty-six hours, half of which were for planting; for 334 honeysuckle it was twenty-seven hours, with nine of these for actual planting, and for 1,000 Vinca minor it took twenty-eight hours, of which ten were required for the planting.

All the charts were based upon experiences at the nursery during the past fifteen years. It was assumed that one cubic foot of soil weighs approximately eighty pounds; that one cubic yard of soil weighs approximately 2,160 pounds, and that one man can handle approximately five cubic yards in a 9-hour day, or one cubic foot in five minutes.

To establish the planted price of a tree or shrub based entirely on the labor involved in moving according to the charts, the total labor hours are multiplied by the cost rate of labor and about forty-four per cent of labor is added to this total to cover sales expenses (10%), overhead (23%), and truck expenses (11%). To this total, fifty per cent is added to cover wet days, vacations, breakdown and, if possible, a little profit. This total is the moving price of the plant, to which the cost of the plant in the ground, the markup on the plant and the truck charges in handling are added to find the selling price of the plant after delivered and planted. It should show an average return of

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twenty per cent if the markup on the plant is not under fifty per cent of the price in the ground.

"The Nursery Office" was the subject discussed by Harold G. Seyler, Farr Nursery Co., Weiser Park, in the opening session of the afternoon. This talk was filled with helpful and valuable pointers and will be published in full in a subsequent issue.

Advice to the New Nurseryman.

William Phillips, Phillips Nurseries, Inc., Wilmington, Del., spoke next on "Establishing a Nursery and Landscape Business," an appropriate subject since his nursery business was established just two years ago. A person should first examine himself to make sure he has a real desire to start in the nursery business. Another point to be considered is whether one has the necessary practical experience. If not, to secure the experience, it is well to locate with a good nursery and let the income be secondary. The amount of work involved should be considered, for the nursery business requires a lot of energy and is highly seasonal. The person starting out should have a speculative interest and needs a sense of objectivity or the ability to look things over from an outsider's viewpoint.

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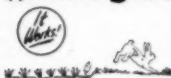
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sale business must give first consideration to the soil in which the plants are to be produced. With a landscape nursery, although the soil is important, first consideration must be given to the location so that people will be attracted to come and buy and seek landscape service. In selecting the location, spots where a lot of competing signs will obscure the nursery should be avoided. A site should be chosen that will give a long view of the grounds to approaching motorists, and the frontage should be broad enough to give ample display areas.

Attractive and well landscaped buildings give the feeling of permanence to an establishment. Changing the plants around the office and other buildings as the season changes adds interest and color. The plants should be mulched with material such as sawdust. In order to be different from gas stations and other businesses, brown gravel can be used for drives and walks instead of the ordinary black-top paving. Signs should be neat, dignified and attractive.

The turnover of plants is important. They sell themselves when in flower but are hard to move afterwards. Other items may be included to help in sales and increase volume of business. At Phillips Nurseries, grass seed, fertilizers, tulip, gladiolus and daffodil bulbs, bird houses, flower seeds, insecticides and fungicides, cast aluminum garden furniture and garden pottery are side-line items.

Advertising in the newspapers should be a regular practice, the copy for which should be carefully written. Trucks should be neat and clean with the nursery name prominently displayed. Other equipment should be clean and in good repair to give the impression of a well run business.

Importance of Campus Landscaping.

The final afternoon talk was "Relation of Landscape Art to College Life and the Nursery Industry" by Paul W. Pierson, assistant supervisor of landscape construction and maintenance at Pennsylvania State College. Mr. Pierson explained the organization of the landscape work done on the campus. A landscape architect is appointed by the board of trustees to plan the plantings for all new college buildings and approve all major construction work. He selects the plant material to be used, the size to be used and the possible nursery to furnish it.

The well organized campus leads to well organized student life. Often the students do not realize the importance of well landscaped grounds

and may take short-cuts across the lawn. The seeds of good planting practices, however, are often carried on after graduation and result in increased interest for well developed homes and grounds. This directly benefits the nursery industry.

There are several problems which arise between the nurseries and the college. Usually it is impossible to select the plants at the nursery. Transportation by freight always creates difficulties. If there is a delay in receiving the material, the plants frequently heat up. Unloading must often be done from the wrong side of the car because of sidings and poor unloading facilities. Truck delivery has been more satisfactory, as it does not require extra handling of the stock. Truck bringing large material are prepared to handle it. Plant arrival can be better spaced so that planting can be done quickly upon arrival.

Material from southeastern nurserymen, according to the speaker, is about two weeks earlier in leafing out and may arrive too early. Plants from northern nurseries are better suited for the college's needs. They are later in starting growth and may be somewhat hardier than southern-grown stock. It is not always possible to secure the stock specified and certain substitutions may have to be made. A common practice is to prune the material at the nursery. The college would prefer to do this after arrival, since the plants may be needed for a particular spot that requires a special type of pruning. Mr. Pierson concluded his talk by showing several Kodachrome slides of campus scenes and plantings.

Following the banquet, Jesse R. S. Flory, of LaBarr's Rhododendron Nursery, Stroudsburg, spoke on "A Trip to California." He was a delegate to the annual meeting of the American Association of Nurserymen at San Francisco last summer and had some marvelous slides of western scenery and some that illustrated the types of landscape planting in that region. An interesting feature of California nurseries is that most of their plants are grown and sold in tin cans of varying sizes. Instead of selling by plant size, as in the east, they are sold by the gallon, the size of the tin can.

Common Insect Pests.

The final session on Thursday opened with a discussion on "Knowing and Controlling Insect Pests" by Stanley G. Gesell, assistant professor of entomology of the extension service. He first showed slides illustrating various types of insects and their

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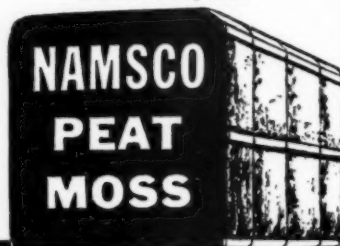
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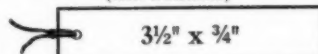
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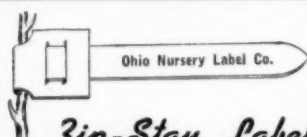
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injury to nursery material. These included maple bladder gall mite which can be controlled by using a dormant spray of lime sulphur in March at the rate of eight parts of liquid lime sulphur to one hundred gallons of water. Oil sprays are dangerous to use on maples. In cases where the plants are near buildings and there is a question of their use because of the odor, a decision will have to be made as to which is most objectionable, the odor or the maple gall.

Box leaf miner can be controlled by using four pounds of fifty per cent DDT powder per 100 gallons of water. The first application should be made about the first of May when the insects begin to fly and again ten to fourteen days later.

To control lace bug on rhododendrons and other broad-leaved evergreens, spray with two pounds DDT to 100 gallons of water.

There are two kinds of spruce gall aphid, one winters on spruce, the other on fir. The one on spruce is the most destructive and is found at the base of shoots. Control is one pound of ten per cent benzene hexachloride to 100 gallons of water applied the last of April. The type which winters on fir usually moves to the spruce the first of June. The injury in this case is at the tip of the shoots and is a more elongated gall. One should watch the tips, and if they turn white or gray, the same spray as given above should be applied.

For white pine weevil, the best control is to cut out the infested terminals, usually in June. Spray usually does not give satisfactory control, although DDT or arsenate of lead may give partial control. This insect may attack all pines and spruces, but white pine is its favorite. Plants in the shade are less susceptible so that interplanting with taller material may give good results.

Pine shoot moth can be controlled by using DDT the middle of June and again in about two weeks. Bagworms can be picked off or if there are too many, spray with three to four pounds of arsenate of lead to 100 gallons of water.

Cicadas may be troublesome this year in Allegheny and Washington counties of Pennsylvania, since brood seven will be hatching. In 1951 the western half of the state can expect many of these insects, for brood eight will be coming out. Use of TEPT should give control.

DDT gives good control of elm-leaf beetle, but its use may allow red spider populations to become heavy.

Various types of scale insects, such as oyster-shell, euonymus and pine

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needle can be controlled by superior oil. This type of oil is more highly refined and is more like a summer oil. It is less likely to cause damage to foliage. Use two gallons to 100 gallons of water. The oil spray should have stated on the container the type of oil, whether it is an oil emulsion, which may cause foliage discoloration, a miscible oil or a superior oil. The latter is the one to select.

Spittle bug may cause stunting of growth as much as three to four inches on the twigs or shoots. To control, use benzene hexachloride and spray with one pound of ten per cent BHC to 100 gallons of water, or dust with one and one-half per cent dust at forty pounds per acre. Another material that can be used for good control is Chlordane, used as a spray of two pounds of fifty per cent Chlordane to 100 gallons of water, or dusted with a five per cent dust at thirty-five pounds per acre.

Red spider or mite control is secured by dusting with TEPP or Parathion. Both materials are poisonous, the first remaining effective for about twenty-four hours and the second for ten to thirty days. A one per cent dust gives good results or a spray of three-fourths pounds of fifteen per cent Parathion to 100 gallons of water.

Review of Soil Testing.

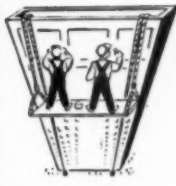
John G. Seeley, professor of floriculture, spoke on "Quick Soil Testing." He said there are several testing kits available on the market. One type has material for testing only the pH, but others can test for nutrient elements plus the pH. Other facilities for soil testing are commercial testing laboratories and the soil analysis run by state agricultural experiment stations. The latter are somewhat slower but more accurate.

While a test shows the nutrients present in the soil, it must be realized that this is only one factor in the growth of the plants, which are also

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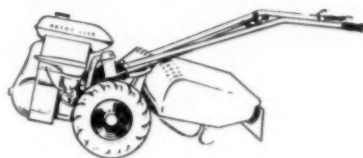
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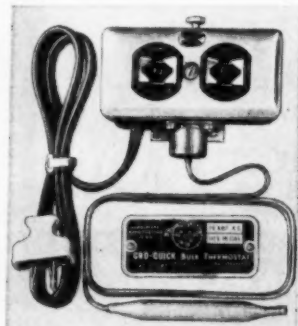
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NEW Tables for easy figuring soil cable requirements.

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affected by water supply, drainage and aeration.

The commercial laboratories charge from \$1 to \$1.25 per sample. An individual business would need to test fifty samples to justify investing in a kit since a good kit costs about \$30 and fresh reagents needed annually run as high as \$10. If a kit is purchased, it is not wise to select one which tests for minor elements, for the procedure is so complicated the average individual will lose heart and not make further attempts. Also these are not accurate for the minor elements. The type to obtain is one which will test for nitrogen, phosphorus, potash and pH. Those testing pH are satisfactory for that purpose but are of no value for nutrients. These may be of the single-solvent type or 4-solvent type. The latter take a little longer to make the test but are more accurate.

The nutrient-testing kits may be of two kinds, Spurway or Morgan, depending upon the particular type of technique employed. The Spurway method was developed mainly for testing greenhouse soils where high amounts of nutrients are present and the extraction solution is about the same as distilled water. The Morgan method uses stronger extracting solutions and thus gets more material from the soil. This method is probably better on nursery or general farm type soils. With either type the soil sample must be representative. Dr. Seeley demonstrated the method by making tests for pH, nitrogen, phosphorus and potash of a soil sample.

2,4-D Weed Killer.

The final speaker on the program was Robert H. Beatty, of the American Chemical Paint Co., Ambler, whose topic was "2,4-D in Plain English." The use of 2,4-D has increased tremendously in the past five years and reached 200,000,000-pound mark last year. It comes in several forms, an acid, which is insoluble; a salt, or ester, and as an amine. When buying 2,4-D it is important to check the actual pounds of acid in the material since the amount of acid is used to determine concentrations in sprays. If only percentages are given, it is best to leave the material alone.

Amine forms are water soluble, while esters are not. These are mixed with oil and then the oil is emulsified with water. The esters are said to be more effective on hard-to-kill weeds because the 2,4-D in oil drops will penetrate plant tissue more readily than those in water. New types of esters are almost nonvolatile. One should distinguish between drift of

Cotoneaster apiculata

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1 7/8 x 3/4 x 24 ins.

\$27.50 per 100

500 or more,

\$25.00 per 100**The SIEBENTHALER CO.**3001 Catalpa Dr.
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the material and volatile fumes. In the drift the wind may carry the material a distance during treatment but there is little drift on quiet days. With volatile fumes, however, areas considerable distances may be affected from the fumes given off the treated areas several days after treatment.

It is not known exactly how the material injures the plants. One theory is that a change in the carbohydrate sugar ratio takes place and causes starvation of the plant. It is known that sunlight is necessary for the chemical to work.

2,4-D will kill most annual weeds, applied at the rate of one to one and one-half pounds of acid per acre and sprayed when the weeds are young. For perennials it is best to spray in the bud of bloom stage with a second spray given in the small rosette stage. Perennial weeds probably will need three sprays.

Pre-emergence sprays, applied before the seeds germinate, can control weeds and annual grasses for three to four weeks. The length of time they will remain effective will be governed by the type of soil. They last longer in sand than in heavier types with organic material and bacteria where they may last no more than two weeks. The bacteria seem to be the destroying agents.

It is not possible to determine which nursery plants can stand the material for not enough tests have been made. Some seem to be immune to injury, such as taxus, rhododendron, laurel, barberry and privet.

Controlling woody plants along



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FAST and EASY**
with
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BUSHMAN
PRUNING SAWS
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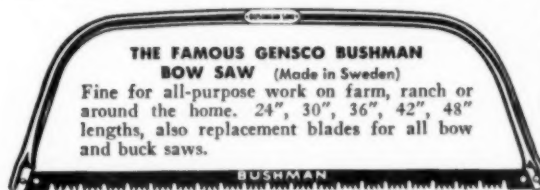
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fence rows and along utility right-of-ways has shown considerable promise. For woody plant control, spraying done right after the initial spring growth has just finished is most effective. Poison ivy is not effectively killed with 2,4-D. Another material, however, known as 2,4,5,T applied in July and August gives good control. Stumps also can be killed with 2,4,5,T in oil by spraying the sides of the stump and letting the material reach the base around the ground line. Covering the top of the stump is not necessary. It can be applied at the rate of one gallon in forty gallons of kerosene or diesel oil. The roots are killed and no sprouts come up around the stump.

ARP HOSTS TO ROTARIANS.

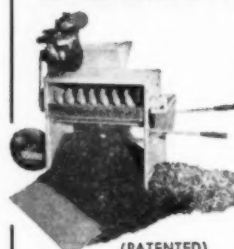
When Rotarians of Tyler, Tex., were paid a visit last month by the president of the Rotary International, Dr. Percy Hodgson, of Pawtucket, R. I., with Mrs. Hodgson and a party of distinguished Rotarians, they were the guests of L. B. Dean and L. A. ("Slick") Dean for a tour of the fields and cold-storage building of the Arp Nursery Co. They also had the opportunity of seeing grafted paper-shell pecan trees and walnut trees, the firm's other specialties, being packed for shipment.

On arrival at the airport at Tyler, Mrs. Hodgson was presented with a lei of Better Times roses from which was suspended a cutout of the state of Texas with a heart marking the location of Tyler. The floral piece was the work of Mrs. L. A. Dean and Mrs. Roy Smith, president of the Tyler chapter of the American Rose Society.

Other prominent Tyler hosts who accompanied the Rotarians on the tour of the Arp Nursery Co. included Jesse Breedlove, local Rotary Club director; Sam Whitlow, East Texas Agricultural Council; W. A. Pounds, Allen Copellar and J. Harold Stringer, all past presidents of the Texas Rose Festival Association, and John Wright, new president of the Tyler chamber of commerce. C. N. Roach, Arp Nursery Co. accountant, aided the Deans as a guide, while Clark Kidd took photographs of the visitors.

A ZOO of wild animals is a drawing card for customers at P. M. Nitsch's newly opened display rooms at La Mesa Nursery, La Mesa, Calif. The new building opens into a patio stocked with plants and outdoor furniture, while the lath house covers half an acre for the trees and shrubs.

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Charles Fiore Nurseries, Prairie View, Ill.—Shade and ornamental trees and shrubs, evergreen trees and shrubs, fruit trees and perennials; 32 pages and cover, 4 x 9 inches.

Jackson & Perkins Co., Newark, N. Y.—Roses, perennials, shrubs, vines, ornamental and shade trees, evergreens and fruit and nut trees; 24 pages and cover, 6 x 8 inches.

Krieger's Wholesale Nursery, Bridgman, Mich.—Small fruit plants and vegetable roots; illustrated, 16 pages, 4 x 9 inches.

Milton Nursery Co., Milton, Ore.—Fruit and nut trees, shade and ornamental trees; 4-page folder, 3 x 9 inches.

Sheridan Nurseries, Ltd., Toronto, Ont.—Evergreens, shade and dwarf trees, flowering shrubs, climbing vines and perennials; 32 pages, 7 x 9 1/2 inches.

J. R. Palmer & Son, Blackduck, Minn.—Evergreens; 4-page folder, 4 x 8 1/4 inches.

C. F. Wassenberg, Van Wert, O.—Perennials, iris, hemerocallis, bulbs and chrysanthemums; illustrated; 24 pages and cover, 8 x 10 1/2 inches.

RETAIL CATALOGS.

Buntings' Nurseries, Inc., Selbyville, Del.—Roses, perennials, evergreens, flowering shrubs and trees, fruit trees and small fruit; illustrated in color; 40 pages, 9 x 12 inches.

Carlton Nursery Co., Forest Grove, Ore.—Fruit trees and small fruits, nut trees, shade and ornamental trees, flowering shrubs and trees, evergreens, rhododendrons, roses and perennials; illustrated, partly in color; 48 pages, 8 1/2 x 11 inches.

Carroll Gardens, Westminster, Md.—Bulbs, perennials, roses, wild flowers, flowering shrubs and trees, evergreen shrubs and trees and small fruits; profusely illustrated, partly in color; 40 pages, 8 1/2 x 11 inches.

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N. A. Hallauer, Webster, N. Y.—Herbaceous and alpine plants, dwarf shrubs and bulbs; 24 pages, 4 x 9 inches.

Hillcrest Gardens, Albert Lea, Minn.—Strawberries and chrysanthemums; 12 pages, 6 x 9 inches.

Hillmeyer Nurseries, Lexington, Ky.—Fruit trees, small fruits and roses; illustrated in color; 8-page folder, 9 1/2 x 12 1/2 inches.

William M. Hunt & Co., New York, N. Y.—Grass seeds, vegetable and small fruit seeds and plants, perennials and bulbs and roots; illustrated; 48 pages, 6 x 9 inches.

Maloney Bros. Nursery Co., Inc., Dansville, N. Y.—Fruit and nut trees and small fruits, shade and ornamental trees, roses and perennials; illustrated, partly in color; 40 pages, 9 x 12 inches.

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Portland Camellia Nursery, Portland, Ore.—Camellias, azaleas and rhododendrons; illustrated, 24 pages, 6x8 1/2 inches.

Saxton & Wilson, Maplewood, Ore.—Perennials, rock plants and miniature roses; illustrated, partly in color; 32 pages and cover, 9x12 inches.

Sheridan Nurseries, Ltd., Toronto, Ont.—Evergreens, flowering shrubs, ornamental and shade trees, dwarf trees, roses, chrysanthemums and perennials; 64 pages and cover, 7x9 1/2 inches.

Sims Fruit & Nursery Farms, Hannibal, Mo.—Fruit trees and small fruits, ornamental shrubs, shade trees, evergreens and roses; illustrated; 24 pages and cover, 8x10 1/2 inches.

State Nursery & Seed Co., Helena, Mont.—Annuals, perennials, vegetable seeds, bulbs, deciduous trees and shrubs, evergreens, fruit trees and small fruits and garden supplies; 80 pages and cover, 7x10 inches.

Tuttle Bros. Nurseries, Pasadena, Calif.—Camellias; 16 pages, 5 1/2 x 8 1/2 inches.

C. F. Wassenberg Peony & Iris Farms, Van Wert, O.—Peonies, iris and hemerocallis; 4 pages, 8 1/2 x 14 inches.

W. W. Wilmore Nurseries, Denver, Colo.—Evergreens, shade and ornamental trees and shrubs, fruit trees, roses, dahlias and perennials; illustrated, 32 pages and cover, 6x9 inches.

RETAIL PRICE LISTS.

Bergeson Nursery, Fertile, Minn.—Apple trees and small fruits, vegetable plants, shade and ornamental trees, flowering shrubs, evergreens, roses and perennials; 20 pages and cover, 3 3/4 x 8 inches.

Pine-Croft Nurseries, Exeter, N. H.—Small fruits, chrysanthemums, perennials and ornamental shrubs, trees and vines; 4-page folder, 8 1/2 x 11 inches.

Wade's Nursery, Molalla, Ore.—Evergreens, flowering and deciduous trees and shrubs, fruit and nut trees and small fruits, rhododendrons and azaleas; 8 pages and cover, 5 1/2 x 8 1/2 inches.

Willamette Nursery Co., Portland, Ore.—Chrysanthemums, iris and pansies; 8 pages, 6x9 1/4 inches, and 2-page supplement, 8 1/2 x 11 inches.

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SUCCESSOR to Faulk & Co., Inc., is Faulk-White Co., Inc., Albertson, L. I., N. Y., which will specialize in large-scale landscape projects with particular emphasis on public works. Headed by Robert B. White, who was the owner of Kinsman Landscape Co., Miami Beach, Fla., the new corporation has as vice-president Harry Oosterom, while Harry C. Fisher, Jr., is also remaining on as general sales manager. Formerly manager of Kinsman Landscape Co., Alfred Quinn will work for the firm in a similar capacity.

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